

# EXHIBIT

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IN RE: ETHICON, INC., Master File No.  
4 PELVIC REPAIR SYSTEM 2:12-MD-02327  
PRODUCTS LIABILITY MDL 2327  
5 LITIGATION

6 JOSEPH R. GOODWIN  
7 THIS DOCUMENT RELATES TO: U.S. DISTRICT JUDGE  
7 THE CASES LISTED BELOW

Mullins, et al. v.  
0 Ethicon, Inc., et al. 2:12-cv-02952  
1 Sprout, et al. v.  
Ethicon, Inc., et al. 2:12-cv-07924

Iquinto v. Ethicon, Inc.,  
et al. 2:12-cv-09765  
Daniel, et al. v.  
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6 Dillon, et al. v. 2:13-cv-02919  
7 Ethicon, Inc., et al. Webb, et al. v. Ethicon, Inc., et al. 2:13-cv-04517

8 Martinez v. Ethicon,  
9 Inc., et al. 2:13-cv-04730  
10 McIntyre, et al. v.  
11 Ethicon, Inc., et al. 2:13-cv-07283

Thursday, October 22nd, 2015  
9:48 a.m.

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3	et al.	
4	Atkins, et al. v. Ethicon, Inc., et al. 2:13-cv-11022	5 REPORTED BY: 6 Maureen O'Connor Pollard, RMR, CLR, CSR
5	Garcia v. Ethicon, Inc., 2:13-cv-14355	7
6	et al	8 APPEARANCES:
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<p style="text-align: right;">Page 6</p> <p>1        P R O C E E D I N G S</p> <p>2</p> <p>3        THE VIDEOGRAPHER: We are now on the</p> <p>4 record. My name is Chris Coughlin, and I'm a</p> <p>5 videographer for Golkow Technologies. Today's</p> <p>6 date is October 22nd, 2015, and the time is</p> <p>7 9:48 a.m..</p> <p>8        This video deposition is being held in</p> <p>9 Cambridge, Massachusetts, In Re: Ethicon, Inc.,</p> <p>10 Pelvic Repair System Products Liability</p> <p>11 Litigation, in the United States District Court</p> <p>12 for the Southern District of West Virginia,</p> <p>13 Charleston Division.</p> <p>14        The deponent is Robyn Prueitt, Ph.D,</p> <p>15 D.A.B.T..</p> <p>16        Will counsel please identify</p> <p>17 yourselves for the record.</p> <p>18        MR. ORENT: Good morning. Jonathan</p> <p>19 Orent for the Plaintiffs, I'm here with Dennis</p> <p>20 Costigan, also for the Plaintiffs.</p> <p>21        MR. HUTCHINSON: Chad Hutchinson,</p> <p>22 counsel for Johnson &amp; Johnson and Ethicon.</p> <p>23        MS. LOWRY: Patricia Lowry for</p> <p>24 Defendant Johnson &amp; Johnson and Ethicon.</p> <p>25        THE VIDEOGRAPHER: The court reporter</p>	<p style="text-align: right;">Page 8</p> <p>1        Exhibit 1 to today's deposition a copy of your</p> <p>2 report in this matter.</p> <p>3        (Whereupon, Prueitt Exhibit Number 1,</p> <p>4 Dr. Prueitt's October 9, 2015 expert</p> <p>5 report, was marked for</p> <p>6 identification.)</p> <p>7        BY MR. ORENT:</p> <p>8        Q. Do you recognize this Exhibit 1 as</p> <p>9 being a report authored by you and dated</p> <p>10 October 9, 2015?</p> <p>11        A. Yes.</p> <p>12        Q. And does this contain a full listing</p> <p>13 of all of the opinions that you intend to</p> <p>14 express in this matter?</p> <p>15        A. Yes, it does.</p> <p>16        Q. This report is signed on October 9th.</p> <p>17 When is it that you were first retained by</p> <p>18 Ethicon in this matter?</p> <p>19        A. October 2nd -- excuse me.</p> <p>20 October 1st.</p> <p>21        Q. Had you ever done any work for Ethicon</p> <p>22 prior to October 1st?</p> <p>23        A. No.</p> <p>24        Q. Now, this was signed on October 9th.</p> <p>25 When did it become final in terms of the draft?</p>
<p style="text-align: right;">Page 7</p> <p>1        is Maureen Pollard, and she will now swear in</p> <p>2 the witness.</p> <p>3</p> <p>4        ROBYN LYN PRUEITT, Ph.D., D.A.B.T.,</p> <p>5 having been first duly identified and sworn, was</p> <p>6 examined and testified as follows:</p> <p>7        EXAMINATION</p> <p>8        BY MR. ORENT:</p> <p>9        Q. We're getting a little bit late start</p> <p>10 today, I apologize to everyone. Traffic was</p> <p>11 unbearable. It took us over three hours to get</p> <p>12 here this morning from Providence, which is at</p> <p>13 least another hour plus than it should have</p> <p>14 taken. So I appreciate your courtesy.</p> <p>15        Ms. Prueitt, would you state -- excuse</p> <p>16 me. Dr. Prueitt, would you please state your</p> <p>17 full name for the record?</p> <p>18        A. Robyn Lyn Prueitt.</p> <p>19        Q. And did you ever go by any other</p> <p>20 names, a maiden name, anything like that?</p> <p>21        A. No.</p> <p>22        Q. Are you currently married?</p> <p>23        A. Yes.</p> <p>24        Q. Ms. Prueitt -- excuse me.</p> <p>25        Dr. Prueitt, I'm going to mark as</p>	<p style="text-align: right;">Page 9</p> <p>1        A. October 9th.</p> <p>2        Q. So you were editing it and working on</p> <p>3 it up until the moment you signed it?</p> <p>4        A. Yes.</p> <p>5        Q. And prior to October 1st, what work</p> <p>6 had you done on medical devices?</p> <p>7        A. None.</p> <p>8        Q. How about medical implants?</p> <p>9        A. None.</p> <p>10        Q. When is the first time you evaluated</p> <p>11 testing using the ISO-10993 series tests?</p> <p>12        A. For this case.</p> <p>13        Q. This is the first time that you ever</p> <p>14 evaluated ISO-10993 type testing, is that right?</p> <p>15        A. Yes.</p> <p>16        Q. And when is the first time that you</p> <p>17 ever evaluated preclinical animal studies?</p> <p>18        A. Just in general?</p> <p>19        Q. In general.</p> <p>20        A. I can't say. I've evaluated many such</p> <p>21 studies over the course of my time at Gradient</p> <p>22 in evaluating toxicity of various chemicals.</p> <p>23        Q. Okay. So I used the term preclinical.</p> <p>24        Have you ever evaluated, prior to this case, an</p> <p>25 in vivo study of an implant?</p>

<p style="text-align: right;">Page 10</p> <p>1 A. No.</p> <p>2 Q. Prior to this, what types of in vivo</p> <p>3 animal studies did you look at?</p> <p>4 A. All sorts of studies, acute studies to</p> <p>5 determine the acute toxicity, such as lethality</p> <p>6 studies, subacute studies of less than 30 days</p> <p>7 in duration of various chemicals by various</p> <p>8 exposure routes, subchronic studies, that is</p> <p>9 90 day studies of various chemicals, and chronic</p> <p>10 studies, particularly carcinogenicity studies.</p> <p>11 Q. And how far out -- what's the longest</p> <p>12 in time that you have seen animal studies go?</p> <p>13 A. I've seen a few go past two years,</p> <p>14 though two years is the sort of standard amount</p> <p>15 of time.</p> <p>16 Q. Standard for the work that you've done</p> <p>17 in the past?</p> <p>18 A. Yes.</p> <p>19 Q. And prior to your work -- I used the</p> <p>20 particular ISO protocol 10993 in my prior</p> <p>21 questions, had you done in vitro assay work</p> <p>22 prior to this case?</p> <p>23 A. I have, although not under the ISO</p> <p>24 guidelines. But yes, in general I have done in</p> <p>25 vivo -- excuse me, in vitro studies.</p>	<p style="text-align: right;">Page 12</p> <p>1 A. Yes.</p> <p>2 Q. Have you ever -- did you do any</p> <p>3 private consulting while working at Fred</p> <p>4 Hutchinson Cancer Research Center?</p> <p>5 A. No, I did not.</p> <p>6 Q. How about while at the National Cancer</p> <p>7 Institute?</p> <p>8 A. No.</p> <p>9 Q. So all of your private consulting</p> <p>10 began when you came to Gradient?</p> <p>11 A. Yes.</p> <p>12 Q. Now, I see that you have not testified</p> <p>13 in the last four years. Have you ever provided</p> <p>14 deposition testimony at all?</p> <p>15 A. No, I haven't.</p> <p>16 Q. So this is your first time?</p> <p>17 A. Yes.</p> <p>18 Q. Have you ever provided testimony in a</p> <p>19 trial?</p> <p>20 A. No.</p> <p>21 Q. Have you ever worked on -- strike</p> <p>22 that.</p> <p>23 Have you ever sat in on a deposition?</p> <p>24 A. No.</p> <p>25 Q. Have you ever, prior to your</p>
<p style="text-align: right;">Page 11</p> <p>1 Q. Okay. What types of in vitro studies</p> <p>2 did you do previously?</p> <p>3 A. Quite a few. In my past work I</p> <p>4 have -- I've added nicotine to prostate cancer</p> <p>5 cells to study their growth and potential</p> <p>6 tumorigenic properties after that exposure.</p> <p>7 I've used in vitro cells to extract protein, DNA</p> <p>8 or RNA for various molecular biology</p> <p>9 applications.</p> <p>10 Q. Have you done any cytotoxicity</p> <p>11 studies, as you've defined the term in your</p> <p>12 report, previously in the in vitro context?</p> <p>13 A. In general terms not, in the way that</p> <p>14 it's described in my report.</p> <p>15 Q. How about in specific terms?</p> <p>16 A. No.</p> <p>17 Q. Now, you've been here at Gradient</p> <p>18 since 2008, is that correct?</p> <p>19 A. 2007.</p> <p>20 Q. 2007.</p> <p>21 Before that, you worked at the Fred</p> <p>22 Hutchinson Cancer Research Center?</p> <p>23 A. Yes.</p> <p>24 Q. And before that, the National Cancer</p> <p>25 Institute, is that correct?</p>	<p style="text-align: right;">Page 13</p> <p>1 preparation for this and prior to your retention</p> <p>2 to this case, ever worked to prepare someone for</p> <p>3 a deposition?</p> <p>4 A. Yes.</p> <p>5 Q. On approximately how many occasions?</p> <p>6 A. Maybe two or three.</p> <p>7 Q. And what context? What types of</p> <p>8 litigation was that involved in?</p> <p>9 A. Let's see. I can't discuss</p> <p>10 specifically because they never -- the cases</p> <p>11 never went to trial, so I'm concerned about</p> <p>12 confidentiality.</p> <p>13 Q. Okay.</p> <p>14 A. But in general, toxic tort cases where</p> <p>15 there was exposure to a substance in air and</p> <p>16 claims of health effects.</p> <p>17 Q. Okay. Can you tell me what that</p> <p>18 substance was?</p> <p>19 A. I don't know if I can.</p> <p>20 Q. Okay. You've done consulting on</p> <p>21 behalf of companies that formerly manufactured</p> <p>22 asbestos, is that correct?</p> <p>23 A. Yes.</p> <p>24 Q. And you've also done consulting on</p> <p>25 behalf of companies that manufactured tobacco</p>

<p style="text-align: right;">Page 14</p> <p>1 products, correct?</p> <p>2 A. Yes.</p> <p>3 Q. And you've also done work for the</p> <p>4 American Petroleum Institute, is that right?</p> <p>5 A. Yes.</p> <p>6 Q. And you've also done work for</p> <p>7 individual manufacturers of petroleum products,</p> <p>8 gas products, correct?</p> <p>9 A. Yes.</p> <p>10 Q. And you've also done work for other</p> <p>11 companies that utilize benzene-based products,</p> <p>12 is that right?</p> <p>13 A. Yes.</p> <p>14 Q. And with regard to asbestos, you've</p> <p>15 worked -- or you've formed opinions as to</p> <p>16 whether or not chrysotile asbestos is a</p> <p>17 carcinogen, is that right? That's one of the</p> <p>18 questions you looked at?</p> <p>19 A. Yes. I did not form opinions. I was</p> <p>20 in a supporting role. But yes, that is a</p> <p>21 question that was looked at.</p> <p>22 Q. And ultimately, the person who was</p> <p>23 testifying that you worked for in that context</p> <p>24 concluded that chrysotile asbestos was not</p> <p>25 carcinogenic, is that right?</p>	<p style="text-align: right;">Page 16</p> <p>1 demonstrate that the individual complainant</p> <p>2 could not have developed mesothelioma as a</p> <p>3 result of exposure to chrysotile asbestos, is</p> <p>4 that right?</p> <p>5 A. Yes.</p> <p>6 Q. Now similarly, with regard to the work</p> <p>7 that you've done on benzene, you ultimately were</p> <p>8 retained by someone, a defendant in litigation,</p> <p>9 who wanted Gradient to provide testimony that</p> <p>10 said that benzene was not the cause of an</p> <p>11 individual complainant's cancer, is that right?</p> <p>12 A. I believe so.</p> <p>13 Q. And similarly, in the tobacco cases</p> <p>14 that you've worked on, the tobacco companies</p> <p>15 retained Gradient, and you assisted in preparing</p> <p>16 reports where ultimately the opinions of</p> <p>17 Gradient were that the tobacco was not a</p> <p>18 contributor to the individual's development of</p> <p>19 cancer, correct?</p> <p>20 MR. HUTCHINSON: Object to form.</p> <p>21 A. No.</p> <p>22 BY MR. ORENT:</p> <p>23 Q. No. Okay.</p> <p>24 What was your role in the tobacco</p> <p>25 cases?</p>
<p style="text-align: right;">Page 15</p> <p>1 A. Yes, I believe so.</p> <p>2 Q. And that is contrary to what the World</p> <p>3 Health Organization has said about chrysotile</p> <p>4 asbestos, is that right?</p> <p>5 A. I don't know.</p> <p>6 Q. In assisting in that work, did you go</p> <p>7 to the World Health Organization's publications,</p> <p>8 like IARC, or any of the other World Health</p> <p>9 Organization publications to determine whether</p> <p>10 or not they believed that chrysotile asbestos</p> <p>11 was carcinogenic?</p> <p>12 A. No, because my portion of the work</p> <p>13 really didn't involve that aspect.</p> <p>14 Q. And did your portion look at the</p> <p>15 epidemiology related to workers who had been</p> <p>16 exposed to chrysotile asbestos?</p> <p>17 A. No.</p> <p>18 Q. Did it involve looking at lung tissue</p> <p>19 samples of individuals who had been exposed to</p> <p>20 chrysotile asbestos products?</p> <p>21 A. No.</p> <p>22 Q. And the context in which you were</p> <p>23 working on these cases was that your company,</p> <p>24 Gradient, had been hired by companies to</p> <p>25 demonstrate that the risk -- excuse me, to</p>	<p style="text-align: right;">Page 17</p> <p>1 A. It was very small. It was shortly</p> <p>2 after I started at Gradient, so I don't remember</p> <p>3 a lot of the specifics, but it had to do with</p> <p>4 comparison of light cigarettes to regular</p> <p>5 cigarettes.</p> <p>6 Q. And ultimately, the conclusion there</p> <p>7 was that regular cigarettes have a more</p> <p>8 carcinogenic potential, is that right?</p> <p>9 A. I don't know.</p> <p>10 Q. And that was -- you were there</p> <p>11 retained on behalf of the Defendant in that</p> <p>12 tobacco litigation, correct?</p> <p>13 A. I'm actually not clear if there was</p> <p>14 litigation. It may have just been consulting to</p> <p>15 understand the scientific issues better.</p> <p>16 Q. Okay. And I see you also were</p> <p>17 retained in some lead litigation, is that</p> <p>18 correct?</p> <p>19 A. Yes.</p> <p>20 Q. And there you worked to determine that</p> <p>21 individual exposure to lead was not the cause of</p> <p>22 the injuries complained of by a group of</p> <p>23 individual children, is that right?</p> <p>24 A. Yes, that's what the testifying expert</p> <p>25 was claiming.</p>

<p style="text-align: right;">Page 18</p> <p>1 Q. Okay. And one of the things that 2 you're aware of is that lead has no known 3 threshold below which there's not been seen to 4 have been found an effect, is that correct?</p> <p>5 A. That's debatable in the scientific 6 literature.</p> <p>7 Q. Okay. So you're aware that the CDC 8 has taken the position that there is no 9 threshold below which lead doesn't have an 10 effect?</p> <p>11 A. I think I've seen that statement.</p> <p>12 Q. Okay. And you disagree with that 13 statement?</p> <p>14 A. I think that some of the work done 15 here at Gradient may contradict that statement.</p> <p>16 Q. Okay. And so what threshold have you 17 worked on here at Gradient that shows that there 18 is a threshold effect for lead?</p> <p>19 A. I can't remember.</p> <p>20 Q. Do you know, as you sit here today, do 21 you recall what the threshold was that you all 22 determined?</p> <p>23 A. No, I don't remember.</p> <p>24 Q. But certainly you are aware that 25 individuals at Harvard, for example Phil</p>	<p style="text-align: right;">Page 20</p> <p>1 Q. But she's done work in litigation, 2 regardless, on lead poisoning?</p> <p>3 A. Yes.</p> <p>4 Q. And you as a scientist, do you put 5 more weight and credibility into the work done 6 by Barbara Beck and the individuals here at 7 Gradient, or do you put more weight onto the 8 CDC's statements in 1991 and 2005 and 2014, I 9 think was the latest one?</p> <p>10 MR. HUTCHINSON: Object to form.</p> <p>11 A. Well, here we look at all the 12 evidence, and so whatever the evidence that the 13 CDC used as their basis we also examine, but we 14 also examine the work of Barbara Beck as well. 15 So, you know, it just depends on -- it's 16 actually a large body of data. We evaluate a 17 large number of studies and, you know, come to 18 our conclusions based on that large body of 19 data.</p> <p>20 BY MR. ORENT:</p> <p>21 Q. Okay. And just for the record, the 22 American Academy of Pediatrics has also come out 23 strongly in multiple iterations in the last 24 15 years suggesting that lead has no known 25 threshold below which there are not -- negative</p>
<p style="text-align: right;">Page 19</p> <p>1 Landrigan, has done a lot of research that shows 2 that, for example, at 3 micrograms per deciliter 3 there's conclusive effects on individuals?</p> <p>4 MR. HUTCHINSON: Object to form.</p> <p>5 A. I don't know. I don't know that 6 they're conclusive.</p> <p>7 BY MR. ORENT:</p> <p>8 Q. So you're also aware that the World 9 Health Organization has formed statements on 10 lead, correct?</p> <p>11 A. I can't remember. I really didn't 12 prepare to talk about lead today.</p> <p>13 Q. Okay. But your opinion certainly, as 14 you sit here today, is that you believe that 15 there is a threshold for lead exposure, correct?</p> <p>16 A. I believe that some of the scientists 17 at Gradient have produced manuscripts in the 18 peer-reviewed literature and other comments that 19 indicate that there's likely a threshold.</p> <p>20 Q. And who are those individuals that 21 wrote those?</p> <p>22 A. Barbara Beck, and Theresa Bowers.</p> <p>23 Q. Now, Barbara Beck was retained by the 24 Lead Industries Association, was she not?</p> <p>25 A. I don't know who she was retained by.</p>	<p style="text-align: right;">Page 21</p> <p>1 effects have been found, is that right?</p> <p>2 MR. HUTCHINSON: Form.</p> <p>3 A. I don't know.</p> <p>4 BY MR. ORENT:</p> <p>5 Q. Okay. But that would be contrary to 6 the position that Gradient has taken as well, 7 correct?</p> <p>8 A. Yes.</p> <p>9 Q. Okay. In your work for Gradient, have 10 you found in the asbestos context a threshold 11 below which you believe that there are no known 12 adverse effects of exposure to asbestos?</p> <p>13 MR. HUTCHINSON: Object to form.</p> <p>14 Also, Counsel, that exceeds the scope 15 of her report.</p> <p>16 MR. ORENT: I understand. I'm getting 17 into background and bias.</p> <p>18 A. I'm sorry, can you repeat it?</p> <p>19 BY MR. ORENT:</p> <p>20 Q. Sure.</p> <p>21 Do you believe that there's a 22 threshold below which asbestos cannot cause 23 human health problems?</p> <p>24 MR. HUTCHINSON: Same objections.</p> <p>25 A. I don't know. Again, I had a very</p>

<p style="text-align: right;">Page 22</p> <p>1 small supporting role in the asbestos work here, 2 so I'm not really prepared to discuss that. 3 BY MR. ORENT: 4 Q. Okay. So you started work on this on 5 October 1st. 6 Between October 1st and October 9th, 7 how many hours do you put in? 8 A. I have an invoice. 9 Q. I'd love to see that. That may be a 10 good time for me to mark as Exhibit 2 to today's 11 deposition a copy of the notice of deposition 12 for today. 13 (Whereupon, Prueitt Exhibit Number 2, 14 Notice of deposition, was marked for 15 identification.) 16 A. Did you ask number of hours? 17 BY MR. ORENT: 18 Q. The number of hours, correct. 19 A. Myself through last Friday, this 20 invoice indicates I worked 51 hours. And then 21 because this invoice only goes through last 22 Friday, also approximately 19 hours this week. 23 However, other individuals have also worked on 24 this with me. 25 Q. Okay. Can I take a look at that</p>	<p style="text-align: right;">Page 24</p> <p>1 the substantive work of drafting the report, or 2 did you draft all of it? 3 A. They did help in doing research to 4 draft the report. 5 Q. And who -- let's start specifically. 6 What was your role in doing this 7 report? 8 A. I made an outline as to what the 9 report would contain, and I asked staff to help 10 me go through some of the documentation and to 11 summarize some of the documentation for me, and 12 to help in the initial draft sections, some of 13 them. And then I myself was responsible for the 14 final report, or editing draft sections, and 15 writing several of the sections. 16 Q. Were there notes exchanged between you 17 and the members of your team on the various 18 sections, or how was that work accomplished? 19 A. No. We met in person. 20 Q. Now, let me just look at this for a 21 minute. 22 What role did Sara Pacheco Shubin -- 23 P-A-C-H-E-C-O, next word S-H-U-B-I-N -- play in 24 the work on this? Who is she? 25 A. She was the project manager for this</p>
<p style="text-align: right;">Page 23</p> <p>1 billing statement? 2 A. Sure (handing). 3 Q. So this runs through the 16th of 4 October. How many hours were spent between the 5 10th and 16th of October? 6 MR. HUTCHINSON: Counsel, do you have 7 another copy for the witness to look at? 8 MR. ORENT: I can hand this back. She 9 just gave this this morning. 10 A. I am not sure. I cannot tell from 11 this. 12 BY MR. ORENT: 13 Q. Between the 10th and the 16th, did you 14 continue to do work reading materials and work 15 on this case? 16 A. Yes, but very little. Actually it 17 would have been -- it was probably around eight 18 hours or so. Not very many. 19 Q. How about your staff, did they 20 continue doing work on this? 21 A. Only helping me prepare for this 22 deposition in terms of printing documents for me 23 and organizing documents. 24 Q. Now, in terms of the report itself, 25 did your staff do any of the work in terms of</p>	<p style="text-align: right;">Page 25</p> <p>1 work. 2 Q. What is a project manager? 3 A. At Gradient the project manager is 4 responsible for kind of the day-to-day aspects 5 of the project as far as helping find people to 6 work on the project, dealing with getting the 7 project started and in our accounting system, 8 reviewing invoices before they go out. 9 Q. Are they responsible for any 10 substantive work? 11 A. They can be. And in this case, yes, 12 Sara was. She helped me to review a lot of the 13 documents, a lot of the studies, and she helped 14 in the early drafting of some of the sections. 15 Q. Now, in this particular case, you 16 spent as of the 16th 51 hours. And based on 17 your testimony that you spent about eight hours 18 between the 10th and 16th, that leads me to 19 believe that you spent about 43 hours and 20 one-tenth, so 43.1 hours in the actual time 21 period between when you got the assignment and 22 drafted the report. Is that approximately 23 correct? 24 A. Yes. 25 Q. Okay. Now, looking at your report,</p>

<p style="text-align: right;">Page 26</p> <p>1 there's a number of reliance documents beginning  2 on Page 18, and that continues between 18 and  3 23, and then there's a Section 6.2 which is sort  4 of reliance documents in addition to the ones  5 that were referenced in the report, and that  6 goes to Page 24, 25, 26, and 27.</p> <p>7 My first question to you is, in  8 Section 6.1, References, prior to writing the  9 report, did you yourself read each and every one  10 of these references before you wrote the report?</p> <p>11 A. Yes, at least portions of them.</p> <p>12 Q. Did you read the entirety of each and  13 every one of these references before writing  14 your report?</p> <p>15 A. No, because some of these are book  16 chapters, and I only needed to look at certain  17 sections of the chapter.</p> <p>18 Q. Okay. So before writing your report,  19 did you read the full Adami article?</p> <p>20 A. No.</p> <p>21 Q. Prior to writing your report, did you  22 read the full Aigmueler article?</p> <p>23 A. Yes.</p> <p>24 Q. Did you read the AUGS Position  25 Statement prior to drafting your report?</p>	<p style="text-align: right;">Page 28</p> <p>1 on this?</p> <p>2 A. No.</p> <p>3 Q. Prior to drafting your opinions in  4 this case, did you read the entire Ethicon  5 Research Foundation 1971 document?</p> <p>6 A. Yes.</p> <p>7 Q. And did you read the entire 1972  8 document before beginning work?</p> <p>9 A. Yes.</p> <p>10 Q. Before beginning work, did you read  11 the entire Ethicon Research Foundation 1975  12 document?</p> <p>13 A. I don't remember.</p> <p>14 Q. To date, have you read that entire  15 document?</p> <p>16 A. Yes.</p> <p>17 Q. How about the Ethicon Research  18 Foundation 1983, Prolene Sutures, did you read  19 that in its entirety before beginning your  20 report?</p> <p>21 A. I don't think so.</p> <p>22 Q. How about the next one, the 1983b?</p> <p>23 A. I don't think so.</p> <p>24 Q. How about the 1984, did you read that  25 in its entirety before beginning your draft of</p>
<p style="text-align: right;">Page 27</p> <p>1 A. Yes.</p> <p>2 Q. Prior to drafting your report, did you  3 read the AUGS Position Statement on Midurethral  4 Slings? This is the second reference there.</p> <p>5 A. Yes, I did.</p> <p>6 Q. Did you read the AUA statement?</p> <p>7 A. Yes.</p> <p>8 Q. How about Barbolt, did you read that  9 document in its entirety?</p> <p>10 A. Yes, I did.</p> <p>11 Q. And you read that before beginning  12 work on this?</p> <p>13 A. Yes, before drafting the report.</p> <p>14 Q. And the second Barbolt, did you read  15 that in its entirety before beginning work on  16 this?</p> <p>17 A. Yes, I did.</p> <p>18 Q. Beck, did you read that in its  19 entirety before beginning work?</p> <p>20 A. No.</p> <p>21 Q. What portions did you read -- did you  22 read the entire section on Page 35 to 87?</p> <p>23 A. No.</p> <p>24 Q. And Eaton, did you read the entire  25 section, Page 13 to 48, prior to beginning work</p>	<p style="text-align: right;">Page 29</p> <p>1 your report?</p> <p>2 A. I don't think so.</p> <p>3 Q. How about the 1988 Prolene, did you  4 read that in its entirety before beginning your  5 draft report?</p> <p>6 A. No.</p> <p>7 Q. How about the 1989 Ethicon Research  8 Foundation document, did you read that in its  9 entirety before beginning your report?</p> <p>10 A. No.</p> <p>11 Q. How about the 1990a, did you read that  12 in its entirety before beginning your report?</p> <p>13 A. No.</p> <p>14 Q. How about the 1990b?</p> <p>15 A. No.</p> <p>16 Q. 1990c?</p> <p>17 A. No.</p> <p>18 Q. How about the 1990d?</p> <p>19 A. No.</p> <p>20 Q. How about the 1991a?</p> <p>21 A. No.</p> <p>22 Q. 1991b?</p> <p>23 A. No.</p> <p>24 Q. How about the 1997 Biological  25 Reactivity In Vitro Cytotoxicity-Elution Test,</p>

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1    did you read that in its entirety before 2    beginning work on your report? 3    A. Yes. 4    Q. How about the 1997b? 5    A. Yes. 6    Q. How about the 1997c? 7    A. Yes. 8    Q. How about the 1964a, Study of Tissue 9    Reaction to Colorless and Pigmented, 10   Monofilament, Polypropylene Suture in the rat 11   and the dog? 12   A. Yes. 13   Q. How about the 1964b? 14   A. No, not in its entirety. 15   Q. How about the 1965a? 16   A. No. 17   Q. How about the 1965b? 18   A. No. 19   Q. How about the 1973 Biological 20   Evaluation in Rabbits? 21   A. No. 22   Q. How about the Ethicon 1991 Prolene 23   Suture? 24   A. No. 25   Q. How about the 1996 Corporate Product	1    A. Yes. 2    Q. How about Groutz, did you read that in 3    its entirety prior to beginning your report? 4    A. Yes. 5    Q. How about Hazleton? 6    A. Yes. 7    Q. And Hill, did you reread that? 8    A. Yes. 9    Q. And the ISO Standardization, did you 10   read that, the 2009a? 11   A. Not in its entirety. 12   Q. How about the 2009b? 13   A. Also not in its entirety. 14   Q. How about the IUGA 2014 Statement? 15   A. Yes. 16   Q. How about the Linder article? 17   A. Not in its entirety. 18   Q. How about Linkov? 19   A. Not in its entirety. 20   Q. How about Martini, 1993 internal memo? 21   A. Yes. 22   Q. How about the Nilsson article? 23   A. Yes. 24   Q. How about the NAMSA article? 25   A. Yes.
Page 31	Page 33
1    Characterization: Product Safety Profile - 2    Prolene? 3    A. Yes. 4    Q. How about the TVT System 510(k) 5    Notification, did you read that in its entirety? 6    A. Yes. 7    Q. How about the 28-Day Intramuscular 8    Tissue Reaction Study in Rats? 9    A. Yes. 10   Q. And the 182-day Intramuscular Tissue 11   Reaction Study? 12   A. Yes. 13   Q. You read that in its entirety? 14   A. Yes. 15   Q. And the 2001 study? 16   A. Yes. 17   Q. How about the Clinical Evaluation 18   Report, the Ethicon 2013, did you read that in 19   its entirety before starting your report? 20   A. Not in its entirety. 21   Q. And how about the European Commission 22   2013 Report? 23   A. Not in its entirety. 24   Q. How about Goutcher 1997, did you read 25   that in its entirety?	1    Q. And how about the 1997b NAMSA? 2    A. Yes. 3    Q. And 1997c? 4    A. Yes. 5    Q. And 1997d? 6    A. Yes. 7    Q. 1997e? 8    A. Yes. 9    Q. And 1997f? 10   A. Yes. 11   Q. And "g"? 12   A. Yes. 13   Q. How about "h"? 14   A. Yes. 15   Q. And the North American Science 16   Associates 2015, did you read that in its 17   entirety before beginning work on writing this 18   report? 19   A. Yes. 20   Q. How about Olsson? 21   A. Yes. 22   Q. Rhomberg? 23   A. No. 24   Q. How about the Royal Australian and New 25   Zealand College of Obstetricians and

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<p>1 Gynecologists Position Statement?</p> <p>2 A. Yes.</p> <p>3 Q. How about Serati?</p> <p>4 A. Yes.</p> <p>5 Q. Svenningsen?</p> <p>6 A. Yes.</p> <p>7 Q. How about the EPA Region 3, is that</p> <p>8 just a reference you had on hand?</p> <p>9 A. No, I actually looked at it.</p> <p>10 Q. Okay. How about FDA 2013?</p> <p>11 A. Not in its entirety.</p> <p>12 Q. How about FDA 1995?</p> <p>13 A. Yes.</p> <p>14 Q. How about Wang?</p> <p>15 A. Yes.</p> <p>16 Q. How about Ward?</p> <p>17 A. Not in its entirety.</p> <p>18 Q. How about Weed?</p> <p>19 A. Not in its entirety.</p> <p>20 Q. Wickwire?</p> <p>21 A. Not in its entirety.</p> <p>22 Q. And Yoon?</p> <p>23 A. Not in its entirety.</p> <p>24 Q. Okay. Turning to 6.2, did you read</p> <p>25 all of the material in Section 6.2 of your</p>	<p>1 Section 6.2 that you did not read in its</p> <p>2 entirety prior to writing your report?</p> <p>3 A. I cannot answer that accurately,</p> <p>4 because some of the Eth.Mesh documents, I cannot</p> <p>5 tell what they are from here. However, I did at</p> <p>6 least open all of them, and if they looked</p> <p>7 relevant to what I needed to put in my report,</p> <p>8 then I would have read them, or at least skimmed</p> <p>9 them to see how relevant they were.</p> <p>10 Q. Now, there's on here on 2014, 30(b)(6)</p> <p>11 Deposition Summary Exhibit. Was that a summary</p> <p>12 of the Barbolt deposition?</p> <p>13 A. Sorry, what page?</p> <p>14 Q. Page 25 under -- the first one under</p> <p>15 2014.</p> <p>16 A. I believe that's a list of studies.</p> <p>17 Q. That's the exhibit that he used in his</p> <p>18 deposition, that he had brought to that</p> <p>19 deposition?</p> <p>20 A. I believe so.</p> <p>21 Q. So that's not a summary of his</p> <p>22 deposition that you were provided?</p> <p>23 A. No.</p> <p>24 Q. Were you provided any summaries of the</p> <p>25 material on either 6.1 or 6.2?</p>	
<p>1 report prior to beginning work on drafting your</p> <p>2 report in this case?</p> <p>3 A. No.</p> <p>4 Q. Do you agree with me that there's a</p> <p>5 significant portion of the documents in</p> <p>6 Section 6.2 that you did not read prior to</p> <p>7 completing your report?</p> <p>8 MR. HUTCHINSON: Object to form.</p> <p>9 A. No. There's very few that I didn't.</p> <p>10 Specifically I did not read the IARC -- on</p> <p>11 Page 27, the IARC Preamble, it's the first</p> <p>12 document listed on Page 27. I'm quite familiar</p> <p>13 with that document; however, I was not asked to</p> <p>14 evaluate carcinogenicity in this case, so I did</p> <p>15 not review that document.</p> <p>16 BY MR. ORENT:</p> <p>17 Q. Are there any other documents you did</p> <p>18 not read in their entirety before completing the</p> <p>19 draft report on October 9th?</p> <p>20 A. I did not read also on the same page</p> <p>21 the MSDS materials, Sunoco MSDS in its entirety</p> <p>22 before drafting the report.</p> <p>23 Q. Did you read it in partial?</p> <p>24 A. Yes.</p> <p>25 Q. Is there anything else in this</p>	<p>1 A. Any summaries. No.</p> <p>2 Q. Let me ask you, did you do your own</p> <p>3 research to identify each and every one of the</p> <p>4 sources cited in your report?</p> <p>5 A. No.</p> <p>6 Q. Were the references in Section 6.1</p> <p>7 provided to you by Ethicon?</p> <p>8 A. Some of them were.</p> <p>9 Q. Which ones were not provided by</p> <p>10 Ethicon?</p> <p>11 A. There are approximately 17 such</p> <p>12 references, because I thought we provided them,</p> <p>13 PDFs. I mean I could go through and try to</p> <p>14 remember.</p> <p>15 Q. If you would.</p> <p>16 A. So -- and they would only be in</p> <p>17 Section 6.1.</p> <p>18 Q. Okay.</p> <p>19 A. And that would be the Adami article,</p> <p>20 and then the Beck book chapter, the Eaton book</p> <p>21 chapter.</p> <p>22 And then on Page 21, the European</p> <p>23 Commission 2013, the Hill 1965 article, the ISO</p> <p>24 2009a and 2009b documents, the Linder article,</p> <p>25 the Linkov article, the Rhomberg article, US EPA</p>	

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<p>1 Region 3 statement, the US FDA 2013, although I 2 believe I later noticed that this document was 3 in, but the initial -- when I read this 4 initially, I had obtained this article myself. 5 Q. Okay. 6 A. The US FDA 1995 reference, the Ward 7 article, the Weed article, the Wickwire article, 8 and the Yoon article. 9 Q. Okay. In terms of the documents and 10 articles listed in Section 6.2, was all of the 11 material in Section 6.2 provided to you by 12 counsel for Ethicon? 13 A. Yes, it was. 14 Q. Now, what particular searches did you 15 use to identify the 17 articles that you 16 yourself pulled? Why were these 17 articles the 17 ones that you selected? 18 A. Right. They were mainly used to 19 describe the methods that I used for my 20 analysis, and these are very common references 21 for these methods that others at Gradient have 22 used as well. 23 Q. And there you're talking about weight 24 of the evidence approach, is that correct? 25 A. And causation, yes.</p>	<p>1 sources? 2 A. Yes. PubMed. Actually I need to 3 restate that. 4 It may not have been 12 hours on 5 literature searches because she also did help 6 catalog documents for us, so that's -- when we 7 receive documents we catalog them so that we can 8 find them easily again in the future, so she 9 also did work on that. So that's likely not 12 10 full hours of literature searching. 11 However, back to your other question, 12 in my report I note that the searches were in 13 PubMed, and I believe Scopus, the Scopus 14 database, but let me double-check that. 15 Yes, PubMed and Scopus database. 16 Q. What section are you on, 2 point -- 17 A. 2.1, underneath the bullets. 18 Q. And those were the mesh terms that you 19 used? 20 A. Yes. 21 Q. Okay. Now, if I understand your 22 opinions in this case, your general opinion is 23 that Prolene mesh in the TVT device is not 24 cytotoxic. Does that summarize, adequately 25 state your opinion?</p>
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	<p>1 Q. So in terms of the substance of your 2 report, the vast majority of the material that 3 you were provided, if not all of it, serves as 4 the basis of your opinions, is that right? 5 A. Yes, most of it. 6 Q. So there's very little original 7 research that you utilized to form the opinions 8 that have been presented in Sections 1 and 2 of 9 your report? 10 MR. HUTCHINSON: Object to form. 11 BY MR. ORENT: 12 Q. And 3. 13 A. Well, I did perform literature 14 searches to try to identify studies, toxicity of 15 Prolene and polypropylene and TVT in the 16 peer-reviewed literature. However, those 17 searches didn't come up with anything. 18 Q. Approximately how long did you spend 19 doing searches? 20 A. Our library staff helps with that, so 21 that would be the work of Ruth Lyddy. Looks 22 like she spent 12 hours. 23 Q. Do you know, in the 12 hours that Ruth 24 spent, do you know what -- did she do a search 25 of PubMed? Would that have been one of the</p>

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1        First of all, focusing on Exhibit 2, 2 the notice of deposition that I've brought in 3 front of you, did you bring -- I know that you 4 brought with you a copy of your billing 5 statement. Did you bring any other materials 6 with you responsive to any of the items, Numbers 7 1 through 21 on Exhibit 2, Schedule A? 8        A. Well, I brought with me my report, 9 this billing, and these binders which are the 10 documents that I referenced in my report, so 11 everything listed in Section 6.1. 12        Q. Okay. Now, as far as your binders are 13 concerned, I see that there's some tabs on 14 there. Are there any handwritten notes or 15 highlights anywhere in your report, in the 16 reliance material that you brought with you? 17        A. No. At least not by me. It is 18 possible that -- actually, no. These were made 19 from PDFs. I don't think so. I certainly 20 didn't make notes. 21        Q. So that's a clean copy of the material 22 listed on either Section 6.1 or 6.2 to your 23 report, is that correct? 24        A. I guess it is possible a few of the 25 documents may have had writing on them if they	1 you're looking at. 2        A. Okay. And I apologize, I did not know 3 these were here. 4        Q. That's fine. 5        A. I hadn't reviewed this, because I had 6 already previously looked at most of these 7 documents. 8        Okay. So in tab 19, the note says 9 "both Elution and Agarose overlay studies 10 reported." 11        And tab 20 says the same thing, "both 12 Elution and Agarose overlay studies reported." 13        Tab 21, same note word-for-word. 14        Q. Just for clarification, tab 21, that's 15 the 1990d Ethicon Research Foundation? 16        A. Tab 21? 17        Q. Yes. 18        A. It is the Goutcher 1997. 19        Q. So then what I'm going to do, those 20 are not in the exact order, I'm going to keep 21 having you do that, and what we'll do is take a 22 copy of the index and put that as part of the 23 record. 24        A. Okay. Tab 25, "both Elution and 25 Agarose overlay studies reported."
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1        were hard copy before they were PDF'd, but 2 again, those notes would not be made by me. 3        Q. Do you have handwritten notes on 4 copies of articles somewhere? 5        A. No. 6        Q. What are the tabs that are -- the 7 green stickies on the top there, the page flags? 8        A. Actually I don't know. I did not put 9 those there. Let me see. 10        Q. I see actually there's a little note. 11        A. Okay. I don't know who did this. I 12 think it's -- but this note looks like it's 13 explaining, for example, this is a study, 14 cytotoxicity study that covers both Elution and 15 Agarose overlay, so I guess to help me identify. 16        Q. If you would identify just for the 17 record -- 18        A. What these are? 19        Q. Yes, what the pages are, and actually 20 just read the note into the record. So 21 identify, for example, tab, whatever the tab 22 number is on your report, read in the note, and 23 identify it's on the cover sheet of that report, 24 so that there's a clear record at the end of 25 this as to what exactly everything is that	1        Tab 26, same note. 2        And tab 27, same note. 3        Q. Okay. And that index that you were 4 referring to earlier, is that an index of all 5 three binders that you brought with you? 6        A. Each binder has its own index. 7        Q. Okay. If you would just take a look 8 at the other binders, and just verify for me 9 that there's nothing else in there, tabbed or -- 10        A. There's one on this second binder. 11        Tab 36, the note says "Agarose overlay only." 12        And the third binder has no notes. 13        Q. Okay. So what I'd like to do now is 14 mark the three cover sheets collectively as one 15 exhibit. We can do that as Exhibit 3. 16        MR. ORENT: Actually I'm happy to do 17 it that way if I get counsel's assurance that 18 those documents are, in fact, what are on here, 19 and that they're all in the production material, 20 and there's no other notes. 21        MR. HUTCHINSON: We'll be happy to 22 accommodate you, Counsel. 23        MR. ORENT: Okay. I don't think 24 anyone needs additional copies of what we all 25 already have five copies of.

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<p>1 (Whereupon, Prueitt Exhibit Number 3, 2 Three index sheets from binders, was 3 marked for identification.) 4 MR. ORENT: I'm going to go ahead and 5 mark this as Exhibit 3. 6 And then as Exhibit 4, I'm going to 7 just mark the billing statement that you 8 provided us earlier this morning and we 9 discussed. 10 (Whereupon, Prueitt Exhibit Number 4, 11 Billing Statement, was marked for 12 identification.) 13 BY MR. ORENT: 14 Q. Just do me a favor and hand me the 15 notice of deposition. I'm going to try and keep 16 everything here together for Maureen so we don't 17 lose anything at the end of the day today. And 18 keep your report in front of you. 19 Have you ever presented at DRI? 20 A. No. 21 Q. Do you know what DRI is? 22 A. Yes. 23 Q. What is DRI? 24 A. Defense Research Institute. I know 25 they have occasional meetings.</p>	<p>1 Q. And he presented on a whole host of 2 potential carcinogens, correct? 3 A. No, there are other chemicals besides 4 carcinogens. 5 Q. And let me ask you this. If you turn 6 to Page 4, it says "David Dodge is a board 7 certified toxicologist with Gradient Corporation 8 in Bend, Oregon, specializing in applied 9 research, risk-based human health evaluations 10 and risk communication. Mr. Dodge has 11 characterized health risks from exposure to 12 chemical and biological agents in products, 13 workplaces and the environment. He has 14 conducted detailed toxicological evaluations of 15 various chemicals." 16 Did I read that correctly? 17 A. Yes. 18 Q. Do you know David? 19 A. Yes, I do. 20 Q. Have you worked with David? 21 A. Yes, I have. 22 Q. On what projects have you worked with 23 David, what chemicals, generally speaking? 24 A. Generally, I have to think. I haven't 25 worked with him for a while.</p>
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<p>1 (Whereupon, Prueitt Exhibit Number 5, 2 Document titled DRI, Seminar, Toxic 3 Torts and Environmental Law, was 4 marked for identification.) 5 BY MR. ORENT: 6 Q. I'm going to mark Exhibit 5 a Seminar 7 on Toxic Efforts and Environmental Law from DRI. 8 And if you look at the list of sponsors on 9 Page 8, you'll see Gradient listed there, is 10 that correct? 11 A. Yes. 12 Q. And that's your company, is that 13 correct? 14 A. Yes, it is. 15 Q. And if you look at -- if you look at 16 the agenda on February -- excuse me, Page 2, 17 February 28th through March 1st, there's a 18 6:00 p.m. networking reception sponsored by 19 Gradient, correct? 20 A. Yes. 21 Q. That's your company, correct? 22 A. Yes. 23 Q. And at the 2:45 hour, David Dodge from 24 Gradient presented, is that correct? 25 A. Yes.</p>	<p>1 Q. Did you work with him on lead? 2 A. No. 3 Q. How about benzene? 4 A. No. 5 Q. TCE? 6 A. Yes. 7 Q. Parkinson's and formaldehyde? 8 A. No. 9 Q. Formaldehyde and leukemia? 10 A. No. 11 Q. Styrene? 12 A. No. 13 Q. Chloro -- 14 A. Chlorpyrifos? 15 Q. Exactly. 16 A. No. 17 Q. And chromium? 18 A. No. 19 Q. If we were to read David's bio and 20 substitute in your name, would it be accurate to 21 describe you as a board certified toxicologist 22 with Gradient Corporation, specializing in 23 applied research, risk-based human health 24 evaluations and risk communication? 25 MR. HUTCHINSON: Form.</p>

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<p>1 A. Yes, except for the word</p> <p>2 "Corporation." Our company is now only called</p> <p>3 Gradient. But the rest would be correct.</p> <p>4 BY MR. ORENT:</p> <p>5 Q. And would it similarly be accurate to</p> <p>6 say that Dr. Prueitt has characterized health</p> <p>7 risks from exposure to chemical and biological</p> <p>8 agents in products, workplaces and the</p> <p>9 environment?</p> <p>10 A. Yes.</p> <p>11 Q. And she has conducted detailed</p> <p>12 toxicological evaluations of various chemicals?</p> <p>13 A. Yes.</p> <p>14 Q. And we talked earlier, you did work</p> <p>15 for API?</p> <p>16 A. Yes.</p> <p>17 Q. That's the American Petroleum</p> <p>18 Institute, correct?</p> <p>19 A. Yes.</p> <p>20 Q. And one of the things that you've done</p> <p>21 with them is we talked about you looked at</p> <p>22 benzene, correct?</p> <p>23 A. Not -- I don't believe that was for</p> <p>24 API.</p> <p>25 Q. I'm sorry, for petroleum manufacturers</p>	<p>1 A. Yes.</p> <p>2 Q. And what you argued here is</p> <p>3 essentially that there is no evidence of ozone</p> <p>4 exposure and adverse human health effects below</p> <p>5 the .08 parts per million, is that right?</p> <p>6 A. Yes.</p> <p>7 Q. And what ultimately happened with</p> <p>8 EPA's rulemaking on this?</p> <p>9 A. They just lowered the standard within</p> <p>10 the last week or two.</p> <p>11 Q. Thank you. You can put that down.</p> <p>12 And you talked earlier that you'd</p> <p>13 worked with Barbara Beck with lead, correct?</p> <p>14 A. Yes.</p> <p>15 MR. ORENT: Mark as Exhibit 7.</p> <p>16 (Whereupon, Prueitt Exhibit Number 7,</p> <p>17 Document titled Gradient to</p> <p>18 Participate in DRI Tox Torts and</p> <p>19 Environmental Law Seminar Feb 9-10 in</p> <p>20 Miami Beach, Florida, was marked for</p> <p>21 identification.)</p> <p>22 BY MR. ORENT:</p> <p>23 Q. Did you assist Barbara Beck in</p> <p>24 preparing for this DRI presentation in 2007?</p> <p>25 A. No.</p>
<p>1 you've looked at benzene, correct?</p> <p>2 A. I've done very little benzene work,</p> <p>3 and I actually can't remember specifically who</p> <p>4 it was for.</p> <p>5 Q. Regardless, you've done work for API,</p> <p>6 the American Petroleum Institute, correct?</p> <p>7 A. Yes, I have.</p> <p>8 Q. And you've written policy papers for</p> <p>9 them, correct?</p> <p>10 A. Policy papers? I have written</p> <p>11 comments to regulatory agencies for them, and I</p> <p>12 have written peer-reviewed manuscripts and</p> <p>13 letters to the editor for them.</p> <p>14 Q. I'm going to hand you what's been</p> <p>15 marked as Exhibit 6 to today's deposition.</p> <p>16 (Whereupon, Prueitt Exhibit Number 6,</p> <p>17 Document titled Comments on US EPA's</p> <p>18 Proposed Reconsideration of the 2008</p> <p>19 NAAQS for Ozone dated 2/2/09, was</p> <p>20 marked for identification.)</p> <p>21 BY MR. ORENT:</p> <p>22 Q. And in this particular piece that I've</p> <p>23 handed you, Gradient was retained to oppose</p> <p>24 lowering the standard that EPA utilized for</p> <p>25 ozone, is that correct?</p>	<p>1 Q. Have you assisted in the preparation</p> <p>2 of other DRI presentations for Barbara or anyone</p> <p>3 else?</p> <p>4 A. No, I have not.</p> <p>5 Q. Did I ask you about Julie Goodman?</p> <p>6 A. No.</p> <p>7 Q. Do you know Julie Goodman?</p> <p>8 A. Yes, I do.</p> <p>9 Q. Have you worked with Julie Goodman?</p> <p>10 A. Yes.</p> <p>11 Q. How frequently?</p> <p>12 A. Quite frequently.</p> <p>13 Q. And have you worked with her on</p> <p>14 asbestos?</p> <p>15 A. I don't think so.</p> <p>16 Q. Do you disagree with her opinions?</p> <p>17 A. I don't know her specific opinions.</p> <p>18 Q. I'm going to hand you what's been</p> <p>19 marked as Exhibit 8 in this deposition.</p> <p>20 (Whereupon, Prueitt Exhibit Number 8,</p> <p>21 Document titled Defending the Wire and</p> <p>22 Cable Asbestos Cases, was marked for</p> <p>23 identification.)</p> <p>24 BY MR. ORENT:</p> <p>25 Q. Have you worked with Julie in</p>

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<p>1 litigation before?</p> <p>2 A. Yes.</p> <p>3 Q. And were you aware that Julie helped</p> <p>4 prepare this presentation on Defending the Wire</p> <p>5 and Cable Asbestos Cases?</p> <p>6 A. No, I was not aware of this.</p> <p>7 Q. All right. You can put that aside.</p> <p>8 (Whereupon, Prueitt Exhibit Number 9,</p> <p>9 Robyn Prueitt, Ph.D, DABT biography,</p> <p>10 was marked for identification.)</p> <p>11 BY MR. ORENT:</p> <p>12 Q. I'm going to hand you what's been</p> <p>13 marked as Exhibit 9. "Representative Projects."</p> <p>14 First, "Carcinogenic Assessment: Evaluated</p> <p>15 whether the weight of epidemiology, animal</p> <p>16 toxicity, mechanistic, and pharmacokinetic</p> <p>17 evidence indicates that toluene diisocyanate" --</p> <p>18 A. Diisocyanate.</p> <p>19 Q. -- "diisocyanate is a human</p> <p>20 carcinogen. This analysis used Gradient's</p> <p>21 hypothesis-based weight of the evidence approach</p> <p>22 and was published in peer-reviewed journal."</p> <p>23 What was your conclusion?</p> <p>24 A. That toluene diisocyanate is not</p> <p>25 likely to be a human carcinogen.</p>	<p>1 there's no proof that they were exposed. So it</p> <p>2 was more just critically reviewing a manuscript.</p> <p>3 Q. And what were your conclusions?</p> <p>4 A. That the state of the science is not</p> <p>5 such that one can use a gene expression profile</p> <p>6 to conclusively determine whether benzene has</p> <p>7 caused toxicity.</p> <p>8 Q. In other words, you can't use the</p> <p>9 gene's expression to determine whether or not</p> <p>10 someone has had benzene exposure?</p> <p>11 A. No, it was you cannot use it to</p> <p>12 determine whether someone has suffered adverse</p> <p>13 effects of benzene.</p> <p>14 Q. Do you believe that there is a</p> <p>15 biomarker of benzene exposure, based on your</p> <p>16 work?</p> <p>17 A. I'm not sure.</p> <p>18 Q. Do you believe -- next is the lung</p> <p>19 cancer from exposure to asbestos during vehicle</p> <p>20 brake repair.</p> <p>21 Did you reach any conclusions with</p> <p>22 regard to that project?</p> <p>23 A. I don't remember. I think I had an</p> <p>24 extremely small role on that project.</p> <p>25 Q. You were retained by asbestos brake</p>
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<p>1 Q. Okay. And there's a wide body of</p> <p>2 literature that supports the notion that toluene</p> <p>3 is, in fact, a human carcinogen, is that</p> <p>4 correct?</p> <p>5 MR. HUTCHINSON: Object to form.</p> <p>6 A. No.</p> <p>7 BY MR. ORENT:</p> <p>8 Q. Are there papers -- are there authors</p> <p>9 that would disagree with you?</p> <p>10 A. I'm not sure.</p> <p>11 Q. "Review of Toxicogenomics: Critically</p> <p>12 reviewed global gene expression profiling data</p> <p>13 for a population exposed to benzene and</p> <p>14 determined whether the expression profile could</p> <p>15 be used as a biomarker of benzene toxicity in a</p> <p>16 broader population, particularly without proof</p> <p>17 of benzene exposure from a specific source."</p> <p>18 What were your conclusions in that</p> <p>19 project?</p> <p>20 A. That project I was just reviewing a</p> <p>21 published article on gene expression profiling,</p> <p>22 and so the conclusions were along the lines of,</p> <p>23 you know, whether the science is strong enough</p> <p>24 to say that a gene expression profile can</p> <p>25 indicate benzene toxicity in people, even if</p>	<p>1 manufacturers in that project, correct?</p> <p>2 A. Someone at Gradient was, I assume.</p> <p>3 Q. And ultimately, the conclusion there</p> <p>4 was that the asbestos from brakes was not a</p> <p>5 source or contributor to the cancer, correct?</p> <p>6 A. I don't recall.</p> <p>7 Q. The next one, "Weight-of-Evidence</p> <p>8 Analysis: Used Gradient's hypothesis-based</p> <p>9 weight-of-evidence approach to assess whether</p> <p>10 epidemiology, toxicology, and mechanistic</p> <p>11 evidence supports chlorpyr" --</p> <p>12 A. Chlorpyrifos.</p> <p>13 Q. Thank you.</p> <p>14 -- "being a neurobehavioral toxicant</p> <p>15 in humans at relatively low exposure levels."</p> <p>16 And what were the conclusions there?</p> <p>17 A. That the evidence indicates that</p> <p>18 chlorpyrifos is not a neurobehavioral toxicant</p> <p>19 at the low exposure levels that humans are</p> <p>20 exposed to.</p> <p>21 Q. "Bioavailability Assessment: Assessed</p> <p>22 whether animal, mechanistic, and epidemiological</p> <p>23 data are consistent with the nickel ion</p> <p>24 bioavailable model, which asserts that the</p> <p>25 carcinogenicity of nickel-containing substances</p>

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<p>1 is based on the bioavailability of the nickel 2 ion at nuclear sites of target respiratory 3 epithelial cells."</p> <p>4 And what conclusions did you reach 5 there?</p> <p>6 A. That different forms of nickel have 7 different bioavailability in the body, and so 8 the conclusions were that the data regarding 9 bioavailability do not support that certain 10 forms of nickel are carcinogenic.</p> <p>11 Q. So in other words, the conclusion 12 there was certain kinds of nickel can't cause 13 cancer?</p> <p>14 A. Did you say can or can't?</p> <p>15 Q. Cannot.</p> <p>16 A. Yes.</p> <p>17 Q. "Toxicity Summary: Classified, 18 summarized, and entered relevant studies of lead 19 and bisphenol A into IUCLID database, a database 20 for the intrinsic and hazard properties of 21 chemical substances that companies can use to 22 submit data under the Registration, Evaluation, 23 Authorization, and Restrictions of Chemical 24 legislation in Europe."</p> <p>25 What was the project there?</p>	<p>1 A. There is some evidence of potential 2 cytotoxicity in vitro.</p> <p>3 BY MR. ORENT:</p> <p>4 Q. Now, in terms of your final opinion, 5 which is the weight-of-evidence, is that TVT is 6 not cytotoxic in humans. Does that rely upon 7 the foundation of human clinical evidence?</p> <p>8 A. In part, yes.</p> <p>9 Q. Does it rely on your review of in vivo 10 cytotoxicity studies?</p> <p>11 A. In part, yes.</p> <p>12 Q. And does it rely upon your evaluation 13 of in vitro studies?</p> <p>14 A. In part, yes.</p> <p>15 Q. Is there anything else that it relies 16 upon?</p> <p>17 A. The position statements from different 18 medical societies.</p> <p>19 Q. Anything else?</p> <p>20 A. Just general toxicology principles.</p> <p>21 Q. Okay. Anything else?</p> <p>22 A. I don't think so.</p> <p>23 Q. Okay. Now, Gradient, this is a lab, 24 right?</p> <p>25 A. Gradient?</p>
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<p>1 A. So those were two completely separate 2 projects with separate clients, one for lead, 3 one for bisphenol A, and that is -- and these 4 projects involved reviewing and writing short 5 summaries of a large number of toxicology 6 studies of either lead or bisphenol A, and then 7 entering those summaries into a database that is 8 part of chemical regulation in Europe.</p> <p>9 Q. And did you reach any conclusions with 10 lead?</p> <p>11 A. No. Both of these studies were not to 12 reach conclusions, they were simply to summarize 13 the literature that is out there, but not to 14 synthesize it and come to any conclusions about 15 it.</p> <p>16 Q. Okay. So going back to what your core 17 opinions in this case are, I understand that it 18 is that TVT mesh is not cytotoxic in vivo, and 19 that the weight of the evidence, according to 20 you, is that it is not cytotoxic in humans, is 21 that correct?</p> <p>22 A. Yes.</p> <p>23 Q. And you said there is evidence of 24 cytotoxicity in vitro, correct?</p> <p>25 MR. HUTCHINSON: Object to form.</p>	<p>1 Q. Yes.</p> <p>2 A. No.</p> <p>3 Q. Do they have lab facilities?</p> <p>4 A. No, we don't.</p> <p>5 Q. Do you have, if a project calls for 6 it, the ability to do your own testing?</p> <p>7 A. No. We would have to find a contract 8 lab to do the testing.</p> <p>9 Q. And did you inquire about doing any of 10 your own cytotoxicity testing?</p> <p>11 A. No.</p> <p>12 Q. How about any of your own in vitro 13 testing?</p> <p>14 A. No.</p> <p>15 Q. So I want to start with where you 16 began in your report on your evaluation of the 17 in vivo studies. And I think it may be easier 18 here, we're going to switch between sections, 19 and really to switch and go right back to data 20 Table A.1.</p> <p>21 If we look at A.1, first of all, did 22 you review each and every one of the 23 cytotoxicity studies cited in Table A.1?</p> <p>24 A. Yes.</p> <p>25 Q. Did you personally review them all</p>

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<p>1 before completing this data table?</p> <p>2 A. Probably not in their entirety, but</p> <p>3 yes.</p> <p>4 Q. How about Table A.2, In Vitro</p> <p>5 Cytotoxicity - the Agarose Overlay. Did you</p> <p>6 read all of those before creating that data</p> <p>7 table?</p> <p>8 A. Before or during, yes.</p> <p>9 Q. Now, would you agree with me that the</p> <p>10 first study in A.1, Study ID M83-184, that is</p> <p>11 not a -- that is not a -- strike that.</p> <p>12 That's a suture study, correct?</p> <p>13 A. Yes.</p> <p>14 Q. That did not involve the same mesh</p> <p>15 used in TVT, correct?</p> <p>16 A. No, it is the same Prolene mesh that</p> <p>17 is used in TTVT; however, it was not taken from a</p> <p>18 TTVT device.</p> <p>19 Q. Well, I guess that's my question. Was</p> <p>20 it taken from a sheet of Prolene, or was it a</p> <p>21 Prolene suture?</p> <p>22 A. It was a Prolene suture.</p> <p>23 Q. Okay. So I want to be very specific</p> <p>24 with the terms. When I'm going to say mesh, I'm</p> <p>25 going to refer to the sheet of mesh, or I'll try</p>	<p>1 A. Yes.</p> <p>2 Q. At least that's how I've read your</p> <p>3 data table.</p> <p>4 A. Yes.</p> <p>5 Q. And this particular study found marked</p> <p>6 cytotoxicity with the polypropylene portion of</p> <p>7 the Prolene mesh, correct?</p> <p>8 MR. HUTCHINSON: Object to form.</p> <p>9 A. With the mesh, yes, but that is</p> <p>10 Prolene mesh.</p> <p>11 BY MR. ORENT:</p> <p>12 Q. And found marked cytotoxicity,</p> <p>13 correct?</p> <p>14 A. Yes.</p> <p>15 Q. The next one is the Sterile Ulmsten</p> <p>16 device. And do you know what the difference</p> <p>17 between the Ulmsten device is and the TTVT?</p> <p>18 A. Yes, I believe they are the same</p> <p>19 thing.</p> <p>20 Q. Do you know, do they use the exact</p> <p>21 same Prolene mesh at the time it was still</p> <p>22 called the Ulmsten device, as opposed to when it</p> <p>23 later became the TTVT?</p> <p>24 A. I'm not sure.</p> <p>25 Q. Did you investigate that to determine</p>
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<p>1 and be clear.</p> <p>2 But this whole study that concluded</p> <p>3 that it was not cytotoxic, had no cytotoxicity,</p> <p>4 that was a suture study, correct?</p> <p>5 A. Yes.</p> <p>6 Q. The next one dated 8/22/1988, that</p> <p>7 also is a suture study, correct?</p> <p>8 A. Yes.</p> <p>9 Q. The next one, 6/12/1997, that is a --</p> <p>10 actually that's a polypropylene mesh, correct?</p> <p>11 A. Yes.</p> <p>12 Q. That's not Prolene, correct?</p> <p>13 A. I'm not sure. I would have to</p> <p>14 double-check the study.</p> <p>15 Q. Well, for example, if you look later</p> <p>16 on --</p> <p>17 A. Actually it should be, because it's</p> <p>18 testing different portions of the device such as</p> <p>19 the needle, the heat-shrink tubing, the sheath,</p> <p>20 so actually I do believe the mesh is Prolene, it</p> <p>21 just states polypropylene in this table.</p> <p>22 Q. Okay. That's different -- and that's</p> <p>23 a different way of stating it than you typically</p> <p>24 state it here; normally you deviate between PP</p> <p>25 and Prolene, correct?</p>	<p>1 whether or not it was the same mesh that was</p> <p>2 marketed in the United States?</p> <p>3 A. I think I did, but I can't remember.</p> <p>4 Q. Now, the next one is the Sterile</p> <p>5 Ulmsten device, correct?</p> <p>6 A. Yes.</p> <p>7 Q. And the mesh there was found by</p> <p>8 Dr. Barbolt to be severely cytotoxic, correct?</p> <p>9 A. Yes.</p> <p>10 Q. And the next two, the NAMSA studies,</p> <p>11 1987a and "b", those used raw polypropylene</p> <p>12 meshes, but those are not -- those are not</p> <p>13 Prolene, correct?</p> <p>14 MR. HUTCHINSON: I'm sorry, Counsel,</p> <p>15 can you tell me where you are?</p> <p>16 MR. ORENT: Sure, 7/29/97, raw</p> <p>17 polypropylene mesh, noncytotoxic, NAMSA 1997a.</p> <p>18 A. No, they are Prolene mesh.</p> <p>19 BY MR. ORENT:</p> <p>20 Q. They are.</p> <p>21 Okay. And the next one, sterile</p> <p>22 polypropylene mesh of TTVT device, that found</p> <p>23 moderate cytotoxicity, correct?</p> <p>24 A. Yes.</p> <p>25 Q. And then the next one, polypropylene</p>

<p style="text-align: right;">Page 66</p> <p>1 mesh from TVT device made with low temperature 2 HST, severe cytotoxicity, correct? 3 A. Yes. 4 Q. Polypropylene from the finished TVT 5 device, slight cytotoxicity, correct? 6 A. Yes. 7 Q. And then it went on to find ELTDP 8 noncytotoxic, Santonox R, severe cytotoxic, and 9 Procol LA-10, severe cytotoxicity, is that 10 correct? 11 MR. HUTCHINSON: Object to form. 12 A. Yes, although the severe cytotoxicity 13 for Santonox R was only at the higher 14 concentration of 3 milligrams per milliliter, 15 but not at the lower concentration of 16 0.2 milligrams per milliliter. 17 BY MR. ORENT: 18 Q. Now, at the bottom there's a "d" and 19 an "e", and those refer back up to the top to 20 the PSE Accession No. 97-0174 and PSE Accession 21 No. 97-0128, and those say that the documents 22 were unavailable. 23 A. Right. 24 Q. So does that mean you didn't have 25 these studies available to you when you drafted</p>	<p style="text-align: right;">Page 68</p> <p>1 conclusions differ in any way between what the 2 author found and what you've read here? 3 A. No. 4 Q. Did you look at the original 5 photomicrographs of the explanted material -- 6 excuse me, any of the photomicrographs of any of 7 the tests, the elution studies, to determine and 8 verify the written findings? 9 MR. HUTCHINSON: Object to form. 10 A. No. 11 BY MR. ORENT: 12 Q. Table A.2. You'd agree, again, that 13 there are tests here that show that there's 14 marked cytotoxicity with regard to the mesh? 15 MR. HUTCHINSON: Object to form. 16 A. Yes, one study does note marked 17 cytotoxicity. 18 BY MR. ORENT: 19 Q. Okay. And again, you note with a "c" 20 that at least one of these studies was not 21 available to you, and you're relying upon some 22 other document to form the basis of your 23 opinion, is that right? 24 A. Yes. 25 Q. As you sit here today, can you tell me</p>
<p style="text-align: right;">Page 67</p> <p>1 this report? 2 A. It means I did not have the study 3 reports; however, I had other documentation 4 about the results. 5 Q. So just to be clear, you didn't have 6 the raw data for "d" and "e", correct? 7 A. Correct. 8 Q. And for "c", which would be Accession 9 No. -- I must be missing it? 10 A. It's in the Conclusion column. 11 Q. Oh, there. "PE sheath - 12 Noncytotoxic," it says "Discrepancy between 13 references." 14 What does that mean? 15 A. That means that in one reference it 16 labeled the result as noncytotoxic, but I think 17 somewhere else it may have labeled the result as 18 slight cytotoxicity, which still indicates that 19 it's not cytotoxic. 20 Q. Now, for each of these studies that 21 you rely on in this table, did you go through 22 and re-review the raw data in forming your 23 conclusions? 24 A. Yes. 25 Q. And on any of these, do your</p>	<p style="text-align: right;">Page 69</p> <p>1 what specific document you rely on for that 2 opinion here? 3 A. It would be the -- so this would be 4 for the study PSE Accession No. 97-0128, and so 5 in the Reference column for that study, because 6 I did not have the raw data, the references 7 listed in that column would be those that I 8 relied on for the results of this study. 9 Q. Okay. If we go to the Implantation 10 Studies next, I'm just going to go in order, 11 3/10/64, those are sutures, correct? 12 A. Yes. 13 Q. They're not Prolene, correct? 14 A. Correct. 15 Q. 7/25/64, sutures, polypropylene, but 16 not Prolene, correct? 17 A. Correct. Well, the study report does 18 not refer to them as Prolene, it only refers to 19 them as polypropylene. 20 Q. Is it fair to say that when you say 21 something is Prolene it is actually Prolene? 22 For example, beginning on 5/20/71, it says 23 "Prolene suture," and any reference that just 24 say "PP suture" just mean polypropylene suture? 25 A. Yes. For the sutures, yes, that's</p>

1 correct. 2 Q. And would you agree with me that all 3 of the studies listed on Page 3 are suture 4 studies? 5 A. Yes. 6 Q. Would you agree with me that all of 7 the studies cited on Page 4 are suture studies? 8 A. Yes. 9 Q. Okay. The top one on Page 5, that's a 10 suture study as well? 11 A. Yes. 12 Q. Okay. The next study is a 10/21/1973 13 study of Prolene mesh and Marlex mesh, correct? 14 A. Yes. 15 Q. Are all -- in your opinion, are all 16 polypropylenes the same? 17 A. Polypropylene is polypropylene. But I 18 would not say all polypropylene meshes are the 19 same. 20 Q. In terms of the cytotoxicity, are all 21 polypropylenes the same? 22 MR. HUTCHINSON: Object to form. 23 A. I don't know. I didn't look at 24 different -- at a large number of polypropylene 25 products.	Page 70 1 moderate at seven days, correct? 2 A. Yes. 3 Q. Minimal to mild at 14 days? 4 A. Yes. 5 Q. Mild at 28 days? 6 A. Yes. 7 Q. And that's a rat, correct? 8 A. Rat study, yes. 9 Q. PSE Accession 99-0115 dated 4/6/2000, 10 that's a rat study, correct? 11 A. Yes, it is. 12 Q. And polypropylene mesh and 13 polypropylene mesh with triclosan, was a gluteal 14 muscle study, and it found a minimal to moderate 15 reaction, correct? 16 A. Yes. Although that should say Prolene 17 mesh. Both the mesh and the mesh with triclosan 18 were Prolene. 19 Q. Okay. And the polypropylene, a 20 subcutaneous rat test found that there was a 21 minimal to mild response in rats on 7/12/2001, 22 is that right? 23 A. Yes, with Prolene mesh. 24 Q. Then we look at Prolene mesh in 2002, 25 and there was a mild to moderate response at
1 BY MR. ORENT: 2 Q. Well, this one is a 1973, it looks at 3 Prolene mesh and Marlex mesh, correct? 4 A. Yes. 5 Q. And do you believe that the results 6 for Prolene and the results for Marlex can be -- 7 that in terms of evaluation of the data you can 8 draw common inferences from the findings? You 9 treat them as the same for purposes of reviewing 10 this study? 11 MR. HUTCHINSON: Form. 12 A. No. 13 BY MR. ORENT: 14 Q. The next one is 6/16/1999, it's a rat 15 study, and the TTV mesh itself found a minimal 16 to moderate cytotoxic reaction, is that correct? 17 A. Only at seven days after implantation, 18 yes. 19 Q. Okay. And then minimal to mild? 20 A. At 14 days, yes. 21 Q. At 14 days. 22 And then a mild cytotoxic reaction at 23 28 days, correct? 24 A. Yes. 25 Q. Polypropylene showed minimal to	Page 71 Page 73 1 seven days, minimal to moderate at 14 days, mild 2 to moderate at 28 days, and minimal to moderate 3 at 14 and 28 days, is that right? 4 A. Yes. 5 Q. And then subcutaneously we see minimal 6 to moderate at seven days, minimal to mild at 7 seven days, minimal to mild at 14 days, minimal 8 to moderate at 28 days, and minimal to mild at 9 28 days, is that right? 10 A. Yes. 11 Q. Now, all these studies are rat 12 studies, correct? 13 A. Which studies? 14 Q. I'm sorry. The ones that actually -- 15 focusing on Page 5 and 6, actually they either 16 involve rats or rabbits, correct? 17 A. The studies with mesh, yes. 18 Q. Okay. And in making your decision 19 on -- on forming your opinions on cytotoxicity, 20 you actually only looked at five studies 21 involving mesh, correct? 22 MR. HUTCHINSON: Object to form. 23 Mischaracterizes the testimony. 24 A. I only looked at, yes, five in vivo 25 studies in animals of the Prolene mesh, yes.

<p style="text-align: right;">Page 74</p> <p>1 BY MR. ORENT:</p> <p>2 Q. And on those particular studies --</p> <p>3 well, first of all, did you do anything to</p> <p>4 verify that Ethicon had given you every single</p> <p>5 in vivo study that it had in its possession?</p> <p>6 A. No, I didn't.</p> <p>7 Q. Do you know, for example, whether or</p> <p>8 not Ethicon had dog studies available to it with</p> <p>9 the actual Prolene mesh?</p> <p>10 A. No, I don't.</p> <p>11 Q. Do you know whether it had sheep</p> <p>12 studies available to it with the actual Prolene</p> <p>13 mesh?</p> <p>14 A. No.</p> <p>15 Q. Would you have wanted to see any dog</p> <p>16 studies related to the Prolene mesh?</p> <p>17 A. It would depend on what type of study</p> <p>18 it was.</p> <p>19 Q. If we're talking in vivo studies,</p> <p>20 implantation studies?</p> <p>21 A. In vivo implantation study, if it</p> <p>22 evaluated endpoints that could inform whether it</p> <p>23 was cytotoxic, yes.</p> <p>24 Q. And would the same be true for sheep</p> <p>25 studies?</p>	<p style="text-align: right;">Page 76</p> <p>1 Q. As you sit here today, are you able to</p> <p>2 tell the jury exactly how one can compare a</p> <p>3 rabbit study to what might be anticipated in a</p> <p>4 human being, based on the various structures</p> <p>5 that you could see under a microscope?</p> <p>6 MR. HUTCHINSON: Same objection.</p> <p>7 A. No.</p> <p>8 BY MR. ORENT:</p> <p>9 Q. Same question with a dog, as you sit</p> <p>10 here today, in terms of the physical features</p> <p>11 that can be observed in an in vivo study under a</p> <p>12 microscope after a material is explanted, are</p> <p>13 you able to tell us how that would be</p> <p>14 anticipated to correlate with a human being?</p> <p>15 MR. HUTCHINSON: Same objection.</p> <p>16 A. No. I'm not a pathologist, so no.</p> <p>17 BY MR. ORENT:</p> <p>18 Q. Okay. And are you able to describe</p> <p>19 how the collagen is different between a dog and</p> <p>20 a human?</p> <p>21 A. No.</p> <p>22 Q. How about the scarification, are you</p> <p>23 able to determine how the scarification in a rat</p> <p>24 is different than the scarification in a human?</p> <p>25 A. No.</p>
<p style="text-align: right;">Page 75</p> <p>1 A. Yes.</p> <p>2 Q. Now, as you sit here today, do you</p> <p>3 have an opinion as to what type of cytotoxic</p> <p>4 information can be gleaned in the quality of</p> <p>5 information between a rat study and a dog study?</p> <p>6 A. Can you repeat that?</p> <p>7 Q. Sure.</p> <p>8 As you sit here today, do you have --</p> <p>9 in your professional knowledge, education and</p> <p>10 training, are you able to quantify or qualify</p> <p>11 the differences between a dog study and a rat</p> <p>12 study in terms of the ingrowth, the types of</p> <p>13 collagen, and the comparability to humans</p> <p>14 between the different animal species?</p> <p>15 MR. HUTCHINSON: Object to form.</p> <p>16 A. No.</p> <p>17 BY MR. ORENT:</p> <p>18 Q. So as you sit here, Doctor, are you</p> <p>19 able to inform us as to how a rabbit, the tissue</p> <p>20 ingrowth and the macrophages and the whole</p> <p>21 process that's being observed in vivo, how the</p> <p>22 cellular structures compare to those of a human?</p> <p>23 MR. HUTCHINSON: Same objection.</p> <p>24 A. No.</p> <p>25 BY MR. ORENT:</p>	<p style="text-align: right;">Page 77</p> <p>1 Q. Are you able to determine how the</p> <p>2 scarification in a dog is different than in a</p> <p>3 human?</p> <p>4 A. No.</p> <p>5 Q. Do you know what reactive oxygenated</p> <p>6 species are, or ROS?</p> <p>7 A. In general, yes.</p> <p>8 Q. Do you know the difference in the</p> <p>9 release of ROS in a rat versus that of a human?</p> <p>10 A. No.</p> <p>11 Q. Okay. Do you have an understanding as</p> <p>12 to the difference between the release of ROS</p> <p>13 from a dog and a human?</p> <p>14 A. No.</p> <p>15 Q. How about a sheep and a human?</p> <p>16 A. No.</p> <p>17 Q. Do you have an understanding as to</p> <p>18 whether or not the quadriped nature of a rabbit</p> <p>19 makes any difference in evaluating the</p> <p>20 cytotoxicity at the site-specific locations that</p> <p>21 were done in these studies and what might be</p> <p>22 inferred from the human pelvis of a woman?</p> <p>23 A. No.</p> <p>24 Q. Do you have any understanding, as you</p> <p>25 sit here today, how the quadriped nature of a</p>

Page 78	Page 80
<p>1 dog might impact the cytotoxicity in the  2 locations implanted in these studies between  3 that and the human pelvis?</p> <p>4 A. No.</p> <p>5 Q. As you sit here today, do you have any  6 understanding as to how the quadriped nature of  7 a rat would differ with the production of ROS  8 and that in the human pelvis?</p> <p>9 MR. HUTCHINSON: Object to form.</p> <p>10 A. No.</p> <p>11 BY MR. ORENT:</p> <p>12 Q. In terms of physical structure and  13 cytotoxicity, do you know how a skin test in a  14 rat compares with results in a human pelvis?</p> <p>15 A. No.</p> <p>16 Q. Do you know how a skin test or  17 under-skin test of a dog would compare with the  18 human pelvis of a woman?</p> <p>19 A. No.</p> <p>20 Q. Do you know how the human pelvis of a  21 woman would compare to a skin test on a sheep?</p> <p>22 A. No.</p> <p>23 Q. Okay. How about a pelvis-to-pelvis  24 comparison, do you know how a pelvis test, the  25 structural test of reactivity in a rat's pelvis</p>	<p>1 Q. Are you aware that the -- do you know  2 who IUGA is?</p> <p>3 A. Yes.</p> <p>4 Q. IUGA is International Urogynecological  5 Association, correct?</p> <p>6 A. Yes.</p> <p>7 Q. And are you aware that they have had  8 roundtables?</p> <p>9 A. No.</p> <p>10 Q. Doctor, were you provided any  11 information that suggests that the IUGA  12 roundtable evaluated the data and made  13 determinations as to the suitability of  14 particular animals for in vivo testing?</p> <p>15 MR. HUTCHINSON: Object to form.</p> <p>16 A. No.</p> <p>17 BY MR. ORENT:</p> <p>18 Q. Were you aware that the IUGA  19 recommended one specific type of animal for  20 in vivo testing?</p> <p>21 A. No.</p> <p>22 Q. Doctor, would that have been  23 information that you would have wanted to see in  24 forming your opinions in this case?</p> <p>25 A. It would have been helpful.</p>
<p style="text-align: center;">Page 79</p> <p>1 would compare to that of a human's pelvis?</p> <p>2 A. No.</p> <p>3 Q. How about with regard to a dog, do you  4 know how a dog's pelvis and the implantation in  5 a dog's pelvis of a piece of mesh would compare  6 in terms of the reaction to that in the human  7 pelvis?</p> <p>8 MR. HUTCHINSON: Form.</p> <p>9 A. No.</p> <p>10 BY MR. ORENT:</p> <p>11 Q. And a sheep's pelvis, do you know how  12 that would react between the implantation in a  13 human's pelvis and -- excuse me, between the  14 implantation of mesh in a sheep's pelvis and  15 that in a human's pelvis, do you know how one  16 would be able to correlate that reaction?</p> <p>17 MR. HUTCHINSON: Form.</p> <p>18 A. No.</p> <p>19 BY MR. ORENT:</p> <p>20 Q. Now, Doctor, in terms of  21 predictability of in vivo studies, did you do  22 any research to determine which animals would be  23 the most appropriate to draw inferences from an  24 in vivo specimen to a human subject?</p> <p>25 A. No.</p>	<p style="text-align: center;">Page 81</p> <p>1 Q. Okay.</p> <p>2 A. But I don't know that it would have  3 changed my conclusions.</p> <p>4 Q. Now, Doctor, what we talked about so  5 far was the in vitro studies. In your report,  6 if you go to Page 10, you make the statement  7 "Ethicon has extensively investigated the safety  8 of Prolene sutures and mesh, and the relevant  9 cytotoxicity and the implantation studies are  10 evaluated below."</p> <p>11 Doctor, what basis do you have to  12 support the conclusion that Ethicon has  13 extensively investigated the safety of Prolene  14 sutures and mesh?</p> <p>15 A. All of the studies in my tables.</p> <p>16 Q. And what have you used as your  17 comparator? So if that, for example, is  18 extensive, how many other companies have you  19 looked at to -- or what other comparison data  20 did you look at to determine that that was  21 extensive versus the alternative?</p> <p>22 A. I didn't do a comparative analysis.</p> <p>23 Q. Okay. So what basis do you have to  24 say, other than saying that there's a number  25 that's on that data table, whatever that is, 19</p>

<p style="text-align: right;">Page 82</p> <p>1 studies, what basis do you have for saying that 2 that is extensive?</p> <p>3 A. Just I would say the number of studies 4 and the -- some of the documents from 5 Dr. Barbolt, he did a risk assessment and 6 cytotoxicity evaluations to show that Ethicon 7 was definitely interested in understanding the 8 safety of this material.</p> <p>9 Q. But we talked earlier that there were 10 only five studies related to mesh, is that 11 right?</p> <p>12 A. Five in vivo studies of Prolene mesh 13 that I evaluated, yes.</p> <p>14 Q. Okay. Would you agree with me that 15 you could not say Ethicon has extensively 16 investigated Prolene mesh in vivo?</p> <p>17 MR. HUTCHINSON: Objection. Asked and 18 answered.</p> <p>19 A. I would not -- sorry, can you ask that 20 again?</p> <p>21 BY MR. ORENT:</p> <p>22 Q. Could I take and -- just take that 23 statement that you have and just alter it a 24 little bit to say Ethicon has extensively 25 investigated the safety of Prolene mesh in vivo,</p>	<p style="text-align: right;">Page 84</p> <p>1 that five in vivo studies involving Prolene mesh 2 meets industry standards?</p> <p>3 MR. HUTCHINSON: Object to form.</p> <p>4 A. I don't know the industry standards.</p> <p>5 BY MR. ORENT:</p> <p>6 Q. Okay. So wouldn't it be true that you 7 really can't say, compared to what everybody 8 else in the industry is doing, you cannot say 9 that what Ethicon did here was extensive. Would 10 you agree with that?</p> <p>11 MR. HUTCHINSON: Form.</p> <p>12 A. My statement wasn't really comparing 13 to the industry. It was just indicating that 14 the total of the data, not just the in vivo 15 studies, but the in vitro and the human clinical 16 studies are together extensive.</p> <p>17 BY MR. ORENT:</p> <p>18 Q. Now, if hypothetically another 19 company, let's say AMS, performed 50 in vivo 20 studies prior to putting their product on the 21 market, you would then not be able to say that 22 Ethicon's five would be significant, or 23 extensive, correct?</p> <p>24 MR. HUTCHINSON: Form.</p> <p>25 A. Not comparative to that, no.</p>
<p style="text-align: right;">Page 83</p> <p>1 as you sit here today, could you offer to a 2 reasonable degree of scientific certainty that 3 opinion?</p> <p>4 MR. HUTCHINSON: Object to form.</p> <p>5 A. That they have extensively 6 investigated it, yes, in vivo.</p> <p>7 BY MR. ORENT:</p> <p>8 Q. So five studies is sufficient for you 9 to call something extensive, is that correct?</p> <p>10 A. In the context of all the other data 11 available, yes.</p> <p>12 Q. Five studies, correct?</p> <p>13 MR. HUTCHINSON: Objection. Asked and 14 answered, Counsel. Move on.</p> <p>15 BY MR. ORENT:</p> <p>16 Q. Now, with regard to these studies, 17 again, you have no comparator, correct?</p> <p>18 A. Right.</p> <p>19 Q. And have you ever worked with a 20 company developing an implant to determine how 21 many studies need to be done in vivo in order to 22 reach a significant endpoint?</p> <p>23 A. No.</p> <p>24 Q. Do you have any basis to say, as you 25 sit here today, from your experience, to say</p>	<p style="text-align: right;">Page 85</p> <p>1 BY MR. ORENT:</p> <p>2 Q. Okay. Now, you read Dr. Barbolt's 3 deposition, correct?</p> <p>4 A. Most of it.</p> <p>5 Q. And in your report, on Page 11, you 6 state that the findings, and this is right above 7 the 3.2 -- 3.1.2 area, you discuss Santonox R 8 and Procol LA from Barbolt?</p> <p>9 A. Yes.</p> <p>10 Q. And you call them surfactants?</p> <p>11 A. Surfactants.</p> <p>12 Q. Surfactants. Okay.</p> <p>13 Now, do you know -- would you agree 14 with me that the longer Procol LA is in the 15 human body in a piece of mesh, the more likely 16 it is to migrate?</p> <p>17 A. I don't know.</p> <p>18 MR. HUTCHINSON: Form.</p> <p>19 BY MR. ORENT:</p> <p>20 Q. Would you agree that Procol LA blooms 21 to the surface?</p> <p>22 A. I have read that. Upon heating at 23 high tem -- or heating the mesh, yes.</p> <p>24 Q. Do you know whether or not Procol LA 25 blooms to the surface in the presence of</p>

1 reactive oxygenated species? 2 A. I do not know that. 3 Q. Do you know whether or not there are 4 other factors in the in vivo environment or the 5 in vitro environment which can cause Procol LA 6 to bloom to the surface? 7 A. No, I don't know. 8 Q. Would it be fair to say to a 9 reasonable degree of professional certainty you 10 do not know of the other factors beyond heating 11 that affect Procol LA? 12 A. That affect its blooming to the 13 surface? 14 Q. Correct. 15 A. Correct. 16 Q. And likewise, beyond heating, you do 17 not have any information as to what promotes 18 Procol LA's migration away from the mesh into 19 other cells except for heating, correct? 20 MR. HUTCHINSON: Object to form. 21 A. Correct, that's not within my area of 22 expertise. 23 BY MR. ORENT: 24 Q. Okay. And your understanding about 25 Procol LA is entirely taken from Dr. Barbolt's	Page 86 1 when it is heated at sterilized temperatures, " 2 you don't know, again, what other factors 3 attribute to Procol LA's migration to the 4 surface, correct? 5 A. Correct. 6 Q. You don't know what other factors 7 might lead Procol LA to migrate into other 8 tissue in the human body, correct? 9 A. Correct. 10 Q. Do you know what the LD50 is of Procol 11 LA? 12 A. No, I don't. 13 Q. And just for the record, what's an 14 LD50? 15 A. It's the dose of a chemical at which 16 50 percent of the animals exposed at that dose 17 will die. 18 Q. And do you know whether or not there's 19 a dose-response curve that's been developed for 20 Procol LA? 21 A. I don't know. 22 Q. Those are two areas, LD50 and 23 dose-response, that are typically in the realm 24 of a toxicologist, correct? 25 A. Yes.
Page 87 1 work, is that correct? Let me rephrase that. 2 Your understanding of Procol LA and 3 its reactivity to heat is entirely based upon 4 Dr. Barbolt's deposition, is that correct? 5 A. No. There were other documents where 6 I saw discussion of the potential for Procol 7 LA-10 to bloom to the surface. 8 Q. Okay. Those were internal corporate 9 documents, correct? 10 A. I can't remember if they all were. 11 It's possible. 12 Q. Did you do a thorough comprehensive 13 literature review of Procol LA prior to writing 14 your report? 15 A. One of my staff did some searching of 16 Procol LA-10, and I don't believe he came up 17 with anything in the peer-reviewed literature. 18 Q. Did you develop, or did you -- would 19 you agree that you're not an expert on Procol 20 LA-10? 21 A. Yes. 22 Q. Now, when you say "with evidence 23 indicating that the positive results are likely 24 attributable to the surfactant additive Procol 25 LA which migrates to the surface of the mesh	Page 89 1 Q. You say "While this additive was 2 cytotoxic when it was applied directly to 3 cultured cells, this does not replicate the 4 conditions of TTV exposure in vivo; these 5 results must be considered in relation to other 6 data available when evaluating the potential 7 cytotoxicity of the tested materials." 8 Do you know, percentage-wise, on a 9 percentage basis, over a ten-year period what 10 percentage of the Procol LA that's in a piece of 11 mesh originally will actually bloom to the 12 surface and migrate? 13 A. No, I don't. 14 Q. So would you agree with me that you 15 can't actually say that the culture cells won't 16 get the same dose ultimately as the cells next 17 to mesh over a ten-year period -- 18 MR. HUTCHINSON: Object to form. 19 BY MR. ORENT: 20 Q. -- from Procol LA? 21 A. It's not likely that they will, 22 because in vitro it's naked cells in a petri 23 dish being exposed directly to this chemical, 24 whereas in the body the mesh is on cells, but 25 there, you know, is a circulatory system,

<p style="text-align: right;">Page 90</p> <p>1 there's many other things going on in vivo that 2 the in vitro tests cannot replicate. So the 3 dose of the Procol LA-10 is not comparable 4 in vitro to in vivo.</p> <p>5 Q. Okay. Now, in terms of the actual 6 amount released, I should talk in terms of 7 release, as you sit here today, you cannot say 8 that the amount of Procol LA released from mesh 9 into the human body over a ten-year period is 10 not the same quantity as that which was tested 11 in the in vivo dish -- in vitro dish, correct?</p> <p>12 MR. HUTCHINSON: Form.</p> <p>13 A. I cannot say that, but I believe 14 many -- several different concentrations were 15 tested in vitro, but I do not know how they 16 compare to the in vivo situation.</p> <p>17 BY MR. ORENT:</p> <p>18 Q. Okay. Now, we next talked about the 19 in vivo studies that involved both mesh and 20 non-mesh. In terms of the endpoints, was 21 necrosis the only endpoint that you were looking 22 for in terms of determining whether or not 23 something was cytotoxic or not?</p> <p>24 A. No. It was the primary endpoint for 25 cytotoxicity, but I also know that wound healing</p>	<p style="text-align: right;">Page 92</p> <p>1 we're using scarification as a metric in these 2 animal studies, focusing on the mesh five, what 3 layer of scarification, what amount of 4 scarification would be the difference between 5 minimal and mild?</p> <p>6 MR. HUTCHINSON: Object to form.</p> <p>7 A. I don't remember. I would have to 8 look that up.</p> <p>9 BY MR. ORENT:</p> <p>10 Q. Okay. Did you do an independent 11 evaluation of each of the specimens and each of 12 the findings to determine whether or not in 13 terms of scarification it was consistent with 14 what your own definition of, for example, 15 extensive scarification might be, or minimal 16 scarification, or something like that?</p> <p>17 MR. HUTCHINSON: Form.</p> <p>18 A. No. I'm not a pathologist, so I had 19 to rely on the study authors.</p> <p>20 BY MR. ORENT:</p> <p>21 Q. Okay. So you relied, for each of 22 those five studies, you relied upon the findings 23 of the authors, correct?</p> <p>24 A. Yes.</p> <p>25 Q. And you yourself would not be</p>
<p style="text-align: right;">Page 91</p> <p>1 is -- or delayed wound healing can be an 2 indication of cytotoxicity. So I was looking at 3 the general tissue response, specifically 4 necrosis, fibrosis, myofiber regeneration, and 5 inflammation, but with necrosis being the most 6 likely indicator of cytotoxicity.</p> <p>7 Q. Did you look for whether or not 8 foreign body giant cells were present?</p> <p>9 A. No.</p> <p>10 Q. How about macrophages?</p> <p>11 A. No.</p> <p>12 Q. How about any cells indicating an 13 acute foreign body reaction?</p> <p>14 A. No, just general inflammation.</p> <p>15 Q. How about scarification?</p> <p>16 A. Yes, the fibrosis.</p> <p>17 Q. Did you look at whether or not 18 bridging fibrosis existed in each of these 19 studies?</p> <p>20 A. Not specifically.</p> <p>21 Q. Do you know what bridging fibrosis is?</p> <p>22 A. No.</p> <p>23 Q. Okay. Do you know how dense the 24 collagen was in areas where there was reported 25 to be little cytotoxicity? In other words, if</p>	<p style="text-align: right;">Page 93</p> <p>1 qualified to do an in vivo study, correct?</p> <p>2 A. No.</p> <p>3 Q. And, in fact, that would go towards 4 either a pathologist or a combination of 5 physician and pathologist, correct?</p> <p>6 A. At least a pathologist.</p> <p>7 Q. Okay. And you can only go on the 8 pathology reports that are provided to you about 9 whether or not there's evidence of a particular 10 finding or not, correct?</p> <p>11 A. Correct.</p> <p>12 Q. And so if something was not an 13 endpoint that was specifically evaluated for, 14 you couldn't say whether or not it was there or 15 not there, you could only state something like 16 there's no evidence presented of X, correct?</p> <p>17 MR. HUTCHINSON: Object to form.</p> <p>18 A. Well, these studies are supposed to 19 look at several different things. And so, for 20 example, these studies are supposed to look for 21 necrosis. So if necrosis is not mentioned, I 22 mean if the study has been done well, then that 23 means that necrosis is not present.</p> <p>24 BY MR. ORENT:</p> <p>25 Q. Okay. Now, chronic inflammation, what</p>

<p style="text-align: right;">Page 94</p> <p>1 is the marker that you use for the definition of 2 chronic inflammation when reviewing these 3 studies? Do you look at it in terms of the 4 presence of foreign body giant cells?</p> <p>5 A. No.</p> <p>6 Q. Okay. Do you look at it in terms of 7 the presence of bridging fibrosis?</p> <p>8 A. No. I look at it as the 9 interpretation of the study authors to whether 10 they saw chronic inflammation.</p> <p>11 Q. Okay. So this is -- when you write 12 these paragraphs on Page 12 and 13, those are 13 more or less summaries of the information that 14 the study authors themselves presented, correct?</p> <p>15 A. Correct.</p> <p>16 Q. Okay. That's not your own independent 17 evaluation of those particular studies, correct?</p> <p>18 MR. HUTCHINSON: Object to form.</p> <p>19 A. As far as looking at the pathology, 20 correct.</p> <p>21 BY MR. ORENT:</p> <p>22 Q. Okay. And you're not reaching 23 independent conclusions from what the authors 24 reached in their findings, correct?</p> <p>25 A. No, not from the pathology, no.</p>	<p style="text-align: right;">Page 96</p> <p>1 studies, and randomized controlled trials.</p> <p>2 Would you agree that that makes up the 3 comprehensive universe of what literature would 4 look like, could look like?</p> <p>5 MR. HUTCHINSON: Object to form.</p> <p>6 A. Yes.</p> <p>7 BY MR. ORENT:</p> <p>8 Q. And so in terms of case studies, did 9 you direct anyone on your team to perform a 10 comprehensive search for all of the human case 11 studies on TTVT?</p> <p>12 A. No.</p> <p>13 Q. In terms of the work that you did, did 14 you direct anyone on your staff to do a 15 comprehensive search for all of the case series 16 studies with TTVT?</p> <p>17 A. No.</p> <p>18 Q. With regard to the work that you did, 19 did you direct anybody to do a comprehensive 20 search of all of the retrospective studies on 21 TTVT?</p> <p>22 A. No.</p> <p>23 Q. In terms of the work that you were 24 doing, did you direct anybody to look for all of 25 the prospective studies on TTVT?</p>
<p style="text-align: right;">Page 95</p> <p>1 Q. You're summarizing the findings of the 2 original authors?</p> <p>3 A. Yes.</p> <p>4 Q. Okay. The next thing that you do is a 5 summary of the clinical evidence. You "did not 6 identify any clinical studies in which 7 cytotoxicity of TTVT was the primary endpoint. 8 However, multiple clinical studies show no 9 evidence of cytotoxicity in women who have been 10 surgically implanted with TTVT."</p> <p>11 Did you do a comprehensive review of 12 the literature regarding TTVT?</p> <p>13 A. Not myself, no.</p> <p>14 Q. Did your team do a comprehensive 15 literature review of the peer-reviewed medical 16 literature on TTVT?</p> <p>17 A. We didn't -- well, it depends on what 18 you mean by "comprehensive." But no, I did not 19 do literature searches to identify all of the 20 studies.</p> <p>21 Q. Okay. For example, when I think of 22 comprehensive literature review, I think of 23 reviewing all of the case studies out there, all 24 of the series, case series, all of the 25 retrospective studies, all of the prospective</p>	<p style="text-align: right;">Page 97</p> <p>1 A. No.</p> <p>2 Q. And in terms of the studies that you 3 did, did you ask anyone to look at all of the 4 randomized controlled trials available on TTVT?</p> <p>5 A. No.</p> <p>6 Q. How about multicenter. You know what 7 a multicenter study is, correct?</p> <p>8 A. Yes.</p> <p>9 Q. Means there's multiple hospitals doing 10 the same procedure to essentially rule out the 11 contribution of physician error as a -- or 12 physician contribution to the result, correct?</p> <p>13 A. Yes.</p> <p>14 Q. It removes that as a confounding 15 factor, true?</p> <p>16 A. Yes.</p> <p>17 Q. Did you do any, or ask for a 18 comprehensive review of the randomized 19 controlled multicenter studies to be done on 20 TTVT?</p> <p>21 A. No.</p> <p>22 Q. And to your knowledge, were any 23 comprehensive reviews conducted on any of those 24 areas that I just asked you about?</p> <p>25 A. No.</p>

<p style="text-align: right;">Page 98</p> <p>1 Q. And would it be true to say that your 2 opinions under 3.3 do not rely upon a 3 comprehensive review of the literature as we've 4 just described it?</p> <p>5 MR. HUTCHINSON: Object to form.</p> <p>6 Mischaracterizing the testimony, Counsel.</p> <p>7 A. The way you describe comprehensive, 8 no.</p> <p>9 BY MR. ORENT:</p> <p>10 Q. Okay. And would you agree that you 11 are not an expert on the peer-reviewed 12 literature regarding the safety and efficacy of 13 the TTV device?</p> <p>14 MR. HUTCHINSON: Object to form.</p> <p>15 A. Correct.</p> <p>16 BY MR. ORENT:</p> <p>17 Q. Okay. Now, the Nilsson study, that's 18 a study that was provided to you by Ethicon, is 19 that correct?</p> <p>20 A. It was, yes.</p> <p>21 Q. Okay. Now, were you aware that the 22 original authors of that study began -- or the 23 study that began 17 years earlier, the original 24 named author had since passed away? Did you 25 know that?</p>	<p style="text-align: right;">Page 100</p> <p>1 would have wanted to know?</p> <p>2 A. I don't think it would change my 3 opinions.</p> <p>4 Q. Would the fact that this was a -- 5 well, let me ask you this.</p> <p>6 What's the prior study -- before the 7 2013 cohort, when is the time prior, immediately 8 prior to that that they looked at the study?</p> <p>9 How many years had passed? If this is 17 years, 10 there was one at how many years?</p> <p>11 A. I can't remember.</p> <p>12 Q. Does 11 sound right to you?</p> <p>13 A. 10 or 11.</p> <p>14 Q. Okay. And between year 11 and year 15 17, how many new complications were found?</p> <p>16 A. I can't remember. I'd have to look 17 that up.</p> <p>18 Q. You would agree, though, that there 19 were new complications found, weren't there?</p> <p>20 A. Actually I don't recall, but I don't 21 believe any of them indicated cytotoxicity.</p> <p>22 Q. And would erosion indicate 23 cytotoxicity to you?</p> <p>24 A. I don't know.</p> <p>25 Q. Do you know what erosion is?</p>
<p style="text-align: right;">Page 99</p> <p>1 A. No.</p> <p>2 Q. Okay. Well, Nilsson is ultimately the 3 guy who took on the role of that.</p> <p>4 But were you aware that that series of 5 studies that went over a 17-year period included 6 provisions in the contract for those studies 7 that payment would only be issued if no new 8 complications were determined to be found in 9 each of the interval periods?</p> <p>10 MR. HUTCHINSON: Form.</p> <p>11 A. No.</p> <p>12 BY MR. ORENT:</p> <p>13 Q. Would you question a study where the 14 authors were paid to not find new adverse 15 clinical outcomes?</p> <p>16 MR. HUTCHINSON: Form.</p> <p>17 A. Possibly.</p> <p>18 BY MR. ORENT:</p> <p>19 Q. Did Ethicon advise you that this study 20 ultimately culminated in paying the authors more 21 than \$2 million?</p> <p>22 A. No.</p> <p>23 MR. HUTCHINSON: Form.</p> <p>24 BY MR. ORENT:</p> <p>25 Q. Would that be information that you</p>	<p style="text-align: right;">Page 101</p> <p>1 A. Is that -- not specifically.</p> <p>2 Q. Okay. Well, were you aware -- I 3 looked at your -- I spent some time going over 4 your material that we looked at, your reliance 5 list, and I didn't see anything by 6 Dr. Klosterhalfen. Do you know who 7 Dr. Klosterhalfen is?</p> <p>8 A. No.</p> <p>9 Q. Do you know who Dr. Klinge is?</p> <p>10 A. Klinge?</p> <p>11 Q. Klinge, K-L-I-N-G-E.</p> <p>12 A. No.</p> <p>13 Q. Were you aware that Dr. Klosterhalfen 14 and his group had evaluated from the 1990s 15 forward thousands of mesh pieces, mesh explants, 16 and published on their findings?</p> <p>17 A. No.</p> <p>18 Q. Were you aware that -- would that be a 19 line of evidence that you would want to see in 20 making cytotoxicity determinations in terms of 21 what pathologists were finding inside human 22 explants?</p> <p>23 MR. HUTCHINSON: Object to form.</p> <p>24 A. If they were reporting clear evidence 25 of cytotoxicity, yes.</p>

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<p>1 BY MR. ORENT:</p> <p>2 Q. Okay. And did you do a comprehensive 3 search of prepared reviewed literature for mesh 4 excisions, and pathology of mesh, those sort of 5 things?</p> <p>6 A. No.</p> <p>7 Q. Would you agree with me that in 8 assessing the human cytotoxicity of mesh that an 9 understanding of human pathology and the human 10 in vivo response is more important than 11 understanding the animal in vivo response?</p> <p>12 MR. HUTCHINSON: Form.</p> <p>13 A. It is more relevant to the question. 14 However, you cannot simply insert mesh into a 15 woman to see what happens and to evaluate 16 cytotoxicity, you can only go by the studies 17 that have been conducted on women whose doctors 18 recommend that they have this procedure for the 19 benefits of the procedure. So you can only look 20 at those women once they have had the procedure 21 and look for evidence of adverse effects, such 22 as cytotoxicity.</p> <p>23 BY MR. ORENT:</p> <p>24 Q. Now, do you know what the universe of, 25 for example -- strike that.</p>	<p>1 A. I believe I did a search of TVT and 2 cytotoxicity, and did not find any in the -- 3 anything in the peer-reviewed literature.</p> <p>4 Q. So I'm a lawyer, when I do research, 5 it's a big part of what I do, I take the term 6 that I want and I put a little circle around it 7 and I draw all these crazy lines, almost like a 8 little sun, I think of all the different 9 synonyms for the word that I'm looking for. Did 10 you do that same thing with cytotoxicity and 11 TVT?</p> <p>12 MR. HUTCHINSON: Object to form.</p> <p>13 A. I believe I did after the literature 14 search.</p> <p>15 BY MR. ORENT:</p> <p>16 Q. Okay. So what terms did you use?</p> <p>17 A. Necrosis, and wound healing.</p> <p>18 Q. And how many articles on wound healing 19 problems with mesh did you find?</p> <p>20 A. Well, no, I didn't do a literature 21 search with that. Just to come to my opinions, 22 I evaluated whether there was impaired wound 23 healing such as in the in vivo studies, and took 24 note of it in the clinical studies that I 25 reviewed as well.</p>
<p>1 Why might a woman with a TVT device 2 have that device explanted?</p> <p>3 A. I'm not a doctor, but I suppose if it 4 was giving her complications.</p> <p>5 Q. Specifically what type of 6 complications?</p> <p>7 MR. HUTCHINSON: Objection. Counsel, 8 this is outside the bounds of her report.</p> <p>9 A. I'm sorry.</p> <p>10 BY MR. ORENT:</p> <p>11 Q. Are there particular complications 12 that you would expect to see that evidence 13 cytotoxicity?</p> <p>14 A. Necrosis, and impaired wound healing.</p> <p>15 Q. And do you know what the peer-reviewed 16 medical literature reports in terms of necrosis 17 in individuals implanted with TVT?</p> <p>18 A. Among the studies I reviewed, necrosis 19 was not mentioned as an endpoint.</p> <p>20 Q. Did you specifically look to the 21 peer-reviewed literature, that vast universe of 22 case studies, case series, retrospective and 23 prospective, as well as RCTs and multi-centered 24 studies, did you specifically look for necrosis 25 in any of those?</p>	<p>1 Q. I see.</p> <p>2 So you didn't actually search PubMed, 3 for example, for necrosis, or for delayed wound 4 healing, is that correct?</p> <p>5 A. Right.</p> <p>6 Q. Okay. If I went on PubMed and did 7 those searches, do you have any idea how many 8 articles I would find?</p> <p>9 A. No.</p> <p>10 Q. Do you know what the most common 11 complication associated with the TVT device is?</p> <p>12 A. No.</p> <p>13 Q. Do you know whether or not the most 14 common complication of TVT experienced in women 15 correlates at all with cytotoxicity?</p> <p>16 A. No.</p> <p>17 Q. One of the documents that you reviewed 18 was an Ethicon summary of literature, correct?</p> <p>19 A. What type of literature?</p> <p>20 Q. The Ethicon 2013 conducted a clinical 21 review of 152 randomized controlled trials.</p> <p>22 A. Yes.</p> <p>23 Q. Did you do anything to verify the 24 comprehensivity of that?</p> <p>25 A. No, I just based it on what they</p>

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<p>1 stated in this report.</p> <p>2 Q. So Ethicon still sells TVT, right?</p> <p>3 A. As far as I know.</p> <p>4 Q. They make money by it, right?</p> <p>5 A. I'm sure they do.</p> <p>6 Q. Okay. Make a lot of money, probably?</p> <p>7 A. I don't know.</p> <p>8 MR. HUTCHINSON: Objection. Outside</p> <p>9 the scope of her report, Counsel.</p> <p>10 BY MR. ORENT:</p> <p>11 Q. And it's in their vested interest to</p> <p>12 have a body of literature that supports keep</p> <p>13 selling this device, right?</p> <p>14 MR. HUTCHINSON: Same objections.</p> <p>15 Foundation.</p> <p>16 A. I suppose.</p> <p>17 MR. HUTCHINSON: We don't want you to</p> <p>18 guess or speculate. I think he'll admit that.</p> <p>19 THE WITNESS: Okay.</p> <p>20 BY MR. ORENT:</p> <p>21 Q. Now, you did nothing to verify the</p> <p>22 accuracy of that literature review, is that</p> <p>23 correct?</p> <p>24 A. Correct.</p> <p>25 Q. Now, in your report you talk about</p>	<p>1 A. Yes.</p> <p>2 Q. And we discussed that there are only</p> <p>3 five in vivo studies conducted by Ethicon,</p> <p>4 correct?</p> <p>5 A. That I'm aware of, yes.</p> <p>6 Q. That you're aware of.</p> <p>7 And you don't know how to correlate</p> <p>8 those with the human experience, correct?</p> <p>9 MR. HUTCHINSON: Object to form.</p> <p>10 A. Not from a pathology standpoint.</p> <p>11 BY MR. ORENT:</p> <p>12 Q. Okay. And we discussed the third,</p> <p>13 which would be the literature, correct?</p> <p>14 A. Human literature?</p> <p>15 Q. Human literature, correct?</p> <p>16 A. Yes.</p> <p>17 Q. And that you didn't do a comprehensive</p> <p>18 literature review, correct?</p> <p>19 MR. HUTCHINSON: Object to form.</p> <p>20 A. Correct.</p> <p>21 BY MR. ORENT:</p> <p>22 Q. And you didn't look at pathology,</p> <p>23 correct?</p> <p>24 A. Right. I don't have expertise in</p> <p>25 that.</p>
<p>1 weight of the evidence approach.</p> <p>2 A. Yes.</p> <p>3 Q. And you use Bradford Hill as an</p> <p>4 example, right?</p> <p>5 A. Yes.</p> <p>6 Q. And really when you think about</p> <p>7 Bradford Hill, you look at causality; that is,</p> <p>8 can this substance cause this, right?</p> <p>9 A. Right.</p> <p>10 Q. And you narrowly defined the issue of</p> <p>11 is TVT cytotoxic here, right? That's how you</p> <p>12 defined the issue?</p> <p>13 A. Yes.</p> <p>14 Q. Now, it seems to me you -- the lines</p> <p>15 of evidence that you cite in your report are</p> <p>16 3-fold, correct?</p> <p>17 A. Yes.</p> <p>18 Q. They're in vitro studies. And we've</p> <p>19 discussed those, correct?</p> <p>20 A. Somewhat, yes.</p> <p>21 Q. And the in vitro studies are -- do</p> <p>22 show that there is some cytotoxicity, correct?</p> <p>23 A. Yes, in vitro.</p> <p>24 Q. Okay. And we discussed in vivo,</p> <p>25 correct?</p>	<p>1 Q. Now, when you do Bradford Hill, you</p> <p>2 want to look at all available lines of evidence.</p> <p>3 So, for example, you would look at everything</p> <p>4 from large scale epidemiological studies, right?</p> <p>5 A. Yes, if they're available.</p> <p>6 Q. To human case studies, to human</p> <p>7 series, correct?</p> <p>8 A. We don't always look at those in</p> <p>9 toxicology. The weight-of-evidence analyses</p> <p>10 that I've done, including those on Exhibit 9,</p> <p>11 the epidemiology studies would be more</p> <p>12 informative than the case reports.</p> <p>13 Q. You do look at various types of cell</p> <p>14 studies, cultures, and things like that, right?</p> <p>15 A. Yes.</p> <p>16 Q. You look at some animal studies, where</p> <p>17 available, correct?</p> <p>18 A. Yes.</p> <p>19 Q. And then you look at all of the</p> <p>20 evidence together, and you form an opinion,</p> <p>21 correct? Is that essentially how Bradford Hill</p> <p>22 works?</p> <p>23 A. Well, that's how weight-of-evidence</p> <p>24 works, yes. And you can use the Bradford Hill</p> <p>25 considerations within that to tie the evidence</p>

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<p>1 together, yes.</p> <p>2 Q. Would you agree with me that really in</p> <p>3 this case your opinions rest solely on your</p> <p>4 interpretation of the mesh in vivo studies?</p> <p>5 MR. HUTCHINSON: Object to form.</p> <p>6 A. No.</p> <p>7 BY MR. ORENT:</p> <p>8 Q. Even though we've shown that your</p> <p>9 literature review was not comprehensive?</p> <p>10 MR. HUTCHINSON: Objection.</p> <p>11 Mischaracterizes testimony.</p> <p>12 I don't know what literature review</p> <p>13 you're talking about, Counsel. I don't think</p> <p>14 the witness does either.</p> <p>15 BY MR. ORENT:</p> <p>16 Q. And even though we have discussed</p> <p>17 that, in fact, in vitro this mesh is cytotoxic,</p> <p>18 correct?</p> <p>19 A. Yes. But in vitro results do not</p> <p>20 predict, necessarily predict what's going to</p> <p>21 happen in vivo.</p> <p>22 Q. Now, part of being a neutral scientist</p> <p>23 is evaluating both sides of the argument,</p> <p>24 correct?</p> <p>25 A. Yes.</p>	<p>1 A. No.</p> <p>2 Q. Do you know what internal corporate</p> <p>3 documents Dr. Elliott and Dr. Rosenzweig looked</p> <p>4 at in terms of forming their opinions?</p> <p>5 A. No.</p> <p>6 Q. Now, in terms of Dr. Iakovlev, how</p> <p>7 many of his reports have you reviewed?</p> <p>8 A. Just one.</p> <p>9 Q. Do you know whether or not</p> <p>10 Dr. Iakovlev has actually written in other</p> <p>11 reports about necrosis?</p> <p>12 A. No, I don't.</p> <p>13 Q. Do you know whether or not</p> <p>14 Dr. Iakovlev has formed opinions on bridging</p> <p>15 fibrosis?</p> <p>16 A. No.</p> <p>17 Q. Do you know whether or not he has</p> <p>18 formed opinions on other aspects of interactions</p> <p>19 between mesh and human tissue that might be</p> <p>20 considered cytotoxic?</p> <p>21 A. No, but he didn't report any</p> <p>22 cytotoxicity in this particular report.</p> <p>23 Q. And have you read Dr. Iakovlev's</p> <p>24 peer-reviewed published articles on mesh?</p> <p>25 A. No.</p>
<p>1 Q. And you saw the reports of Dr. Elliott</p> <p>2 and Dr. Rosenzweig, correct?</p> <p>3 A. Yes, I did.</p> <p>4 Q. And do you know how many articles,</p> <p>5 medical articles, Dr. Elliott reviewed prior to</p> <p>6 forming his opinions in this case?</p> <p>7 A. No, I don't.</p> <p>8 Q. Do you know how much pathology and how</p> <p>9 many pathology reports he reviewed in terms of</p> <p>10 forming his opinion?</p> <p>11 A. No, I don't.</p> <p>12 Q. Do you know how many human patients he</p> <p>13 saw with mesh complications prior to forming his</p> <p>14 opinions?</p> <p>15 A. No, I don't.</p> <p>16 Q. Same with Dr. Rosenzweig, do you know</p> <p>17 how many patients he saw with TTV complications</p> <p>18 prior to forming his opinion?</p> <p>19 A. No.</p> <p>20 Q. Do you know how much pathology or</p> <p>21 pathology reports he looked at prior to forming</p> <p>22 his opinions?</p> <p>23 A. No.</p> <p>24 Q. Do you know what body of literature he</p> <p>25 reviewed prior to forming those opinions?</p>	<p>1 MR. ORENT: Why don't we take a short</p> <p>2 five minute break.</p> <p>3 THE VIDEOGRAPHER: Going off the</p> <p>4 record. The time is 12:09.</p> <p>5 (Whereupon, a recess was taken.)</p> <p>6 THE VIDEOGRAPHER: Back on the record.</p> <p>7 The time is 12:31.</p> <p>8 BY MR. ORENT:</p> <p>9 Q. I asked you this question with regard</p> <p>10 to in vivo, but let me ask it with in vitro.</p> <p>11 You yourself, do you do in vitro</p> <p>12 testing?</p> <p>13 A. No.</p> <p>14 Q. Now, if we look at, in your report,</p> <p>15 data Table A.2 -- I'm sorry, A.3, I notice that</p> <p>16 there's no footnotes there, and there's a whole</p> <p>17 host of footnotes on the shorter A.1 and A.2.</p> <p>18 Why is it that there's no footnotes?</p> <p>19 A. I didn't think there was anything</p> <p>20 necessary to footnote. The footnotes in Tables</p> <p>21 A.1 and A.2 were just clarifying whether they</p> <p>22 were ISO guideline studies.</p> <p>23 Q. Okay. A few other questions for you.</p> <p>24 With regard to your work at Gradient,</p> <p>25 you're not a principal, correct?</p>

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	<p>1 A. Correct.</p> <p>2 Q. Are you in line to be a principal?</p> <p>3 A. Yes, I am.</p> <p>4 Q. And at what point in your career, how</p> <p>5 many more years, or when do you come up for</p> <p>6 evaluation for becoming a principal?</p> <p>7 A. Well, to become a principal at</p> <p>8 Gradient, it's dependent upon how much revenue</p> <p>9 you bring in.</p> <p>10 Q. Okay. And what is the amount of</p> <p>11 revenue that is considered enough to become a</p> <p>12 principal?</p> <p>13 A. It might be different for different</p> <p>14 people, but I believe the general number is</p> <p>15 100,000.</p> <p>16 Q. Okay. Is that per year, or --</p> <p>17 A. Yes.</p> <p>18 Q. And do you reasonably believe that</p> <p>19 you're going to become a principal this year, at</p> <p>20 the end of the year, or next year?</p> <p>21 A. This year, no.</p> <p>22 Q. Now, with regard to the structure</p> <p>23 here, do you have a principal who is your</p> <p>24 supervisor?</p> <p>25 A. No.</p>	<p>1 confidentiality check. Sorry.</p> <p>2 Q. I understood that that's what you</p> <p>3 meant.</p> <p>4 A. Yes.</p> <p>5 Q. Your rate is 265 an hour, correct?</p> <p>6 A. Yes, it is.</p> <p>7 Q. Do you directly receive any portion of</p> <p>8 your billings?</p> <p>9 A. Principals at Gradient do receive a</p> <p>10 percentage of the revenue of projects that they</p> <p>11 bring in.</p> <p>12 Q. Okay. So in terms of this particular</p> <p>13 project, since you're not technically a</p> <p>14 principal yet, do you receive a percentage of</p> <p>15 the total billings?</p> <p>16 A. Yes.</p> <p>17 Q. What's that percentage?</p> <p>18 A. I actually don't know.</p> <p>19 Q. Okay. And that's a percentage of not</p> <p>20 just the work that you do, but the work that's</p> <p>21 assigned out and billed under your project, is</p> <p>22 that right?</p> <p>23 A. I don't know.</p> <p>24 Q. Do you know, is it greater or less</p> <p>25 than 10 percent?</p>
	<p>1 Q. How does that work? Who is your boss?</p> <p>2 A. Well, in a case like this where I'm</p> <p>3 hired, I'm the boss.</p> <p>4 Q. But in terms of structure within</p> <p>5 Gradient, who do you report to?</p> <p>6 A. Yes, I do have a manager who is a</p> <p>7 principal here.</p> <p>8 Q. And who is that?</p> <p>9 A. His name is Kurt Herman.</p> <p>10 Q. And does he evaluate your work at the</p> <p>11 end of every year?</p> <p>12 A. Yes.</p> <p>13 Q. And in terms of the projects that you</p> <p>14 take on, do you need to get Kurt's approval?</p> <p>15 A. No.</p> <p>16 Q. Do you need to get any sort of</p> <p>17 corporate approval?</p> <p>18 A. No. The only thing we do is we do a</p> <p>19 confidentiality check before agreeing to do</p> <p>20 work.</p> <p>21 Q. And do you individually -- I know that</p> <p>22 your billing rate is 265 an hour, is that right?</p> <p>23 A. Yes.</p> <p>24 And the last thing I said, I meant to</p> <p>25 say a conflict of interest check, not a</p>	<p>1 A. I don't know.</p> <p>2 Q. Okay. We just took what I thought was</p> <p>3 going to be a short break, ended up being a</p> <p>4 little bit longer. Did you have the opportunity</p> <p>5 over the course of the break to talk to your</p> <p>6 counsel?</p> <p>7 A. Yes, I did.</p> <p>8 Q. Did you talk about the substance of</p> <p>9 your testimony?</p> <p>10 A. Substance? We did talk about the</p> <p>11 testimony.</p> <p>12 Q. Okay. Did you review any documents?</p> <p>13 A. No.</p> <p>14 Q. Did you prepare questions that you</p> <p>15 were going to be asked going forward?</p> <p>16 A. I did not, no.</p> <p>17 Q. Were you asked -- basically were you</p> <p>18 told what questions you would be asked?</p> <p>19 MR. HUTCHINSON: Objection. Counsel,</p> <p>20 that's work product. Instruct the witness not</p> <p>21 to answer.</p> <p>22 BY MR. ORENT:</p> <p>23 Q. Are you going to stand by that advice?</p> <p>24 A. Yes.</p> <p>25 Q. But you did talk about the substance</p>

<p style="text-align: right;">Page 118</p> <p>1 of what we're discussing here today, correct? 2 A. Some of it. 3 MR. ORENT: Okay. All right. I'm 4 going to maintain an objection to your last 5 instruction on the record and reserve all my 6 rights accordingly. 7 Subject to that, I am done, and 8 obviously also subject to my right to redirect. 9 EXAMINATION 10 BY MR. HUTCHINSON: 11 Q. Dr. Prueitt, my name is Chad 12 Hutchinson, I have the privilege of representing 13 Ethicon and Johnson &amp; Johnson. 14 Walk us through your education, 15 please. 16 A. I received a bachelor of science 17 degree in biology from Pacific Lutheran 18 University. And then I received a Ph.D in 19 molecular biology from the University of Texas 20 Southwestern Medical Center at Dallas. Then I 21 was a post-doctoral fellow at the National 22 Cancer Institute for five years. Then a staff 23 scientist at the Fred Hutchinson Cancer Research 24 Center for one year. 25 Q. And what did you do as a staff</p>	<p style="text-align: right;">Page 120</p> <p>1 require an additional three years of working 2 toxicology experience, and then for a master's 3 degree it would require seven years. And so 4 that combination of education and experience 5 qualifies you to take the exam to be board 6 certified. 7 So then I sat for an exam that is -- 8 that covers toxicology, every aspect of 9 toxicology, very comprehensive exam, for a day 10 and a half, and so I passed that exam. And then 11 to keep my board certification, each year I have 12 to do either -- well, I have to do a certain 13 number of toxicology-related activities, such as 14 attend conferences, publish papers, take 15 courses, things like that. 16 Q. And, Doctor, you mentioned publishing 17 papers. Have you published any peer-reviewed 18 journal articles regarding toxicology? 19 A. Yes, I've published quite a few. 20 Q. Are those reflected in the CV that the 21 Plaintiffs' lawyer attached as Exhibit 1 to your 22 deposition? 23 A. Yes, they are all listed there. 24 Q. And have you spoken about toxicology 25 issues?</p>
<p style="text-align: right;">Page 119</p> <p>1 scientist? 2 A. I managed and conducted studies 3 investigating prostate cancer biomarkers. 4 Q. Through the course of your education, 5 experience, have you done toxicology work? 6 A. Yes, I have. 7 Q. And would that be reflected in your 8 CV? 9 A. Yes. 10 Q. Would you tell the jury about your 11 toxicology work, please? 12 A. At the National Cancer Institute I 13 studied the effects of smoking and nicotine on 14 prostate cancer. 15 Q. Anything else? 16 A. No. 17 Q. Are you board certified in anything, 18 Dr. Prueitt? 19 A. Yes, I'm board certified in 20 toxicology. 21 Q. What does it mean to be board 22 certified in toxicology? 23 A. So first it requires a certain 24 combination of education and experience. For 25 example, for someone with a Ph.D, it would</p>	<p style="text-align: right;">Page 121</p> <p>1 A. Yes. 2 Q. And that would be presentations in 3 front of peers? 4 A. Yes. 5 Q. Are those references and presentations 6 included in your CV that Plaintiffs' lawyer 7 marked as Exhibit 1 to your deposition? 8 A. Yes, they are. 9 Q. I notice on your CV there's a Ph.D 10 behind your name, is that correct? 11 A. Yes. 12 Q. What does that mean? What do you have 13 a Ph.D in? 14 A. My Ph.D is in molecular biology and 15 human genetics. 16 Q. And do you use that discipline in your 17 field, in toxicology? 18 A. Yes. 19 Q. I also noticed behind your name 20 D.A.B.T.. What does D.A.B.T. stand for? 21 A. Diplomate of the American Board of 22 Toxicology, so that's indicating my board 23 certification. 24 Q. Now, Dr. Prueitt, let's look at your 25 expert report that's marked as Exhibit 1 to your</p>

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<p>1 deposition. Do you have that in front of you?</p> <p>2 A. Yes.</p> <p>3 Q. And turn with me, please, to Page 18</p> <p>4 of your report.</p> <p>5 Are you there?</p> <p>6 A. Yes.</p> <p>7 Q. And Page 18 lists reliance documents,</p> <p>8 correct?</p> <p>9 A. Yes.</p> <p>10 Q. What are reliance documents?</p> <p>11 A. These are the documents that I</p> <p>12 reviewed, and some of which -- and some of them</p> <p>13 I cited in my report, and so I reviewed these</p> <p>14 and used them to come to my opinions.</p> <p>15 Q. And, Dr. Prueitt, I'll represent to</p> <p>16 you that there are 72 different documents under</p> <p>17 this heading. Does that sound about right to</p> <p>18 you?</p> <p>19 A. It does. They're not numbered, so I</p> <p>20 can't check, but that sounds right.</p> <p>21 Q. You were asked questions about whether</p> <p>22 you read all of these documents before beginning</p> <p>23 your expert report. Do you recall that line of</p> <p>24 questioning?</p> <p>25 A. Yes.</p>	<p>1 report, starting on Page 12, and let me know</p> <p>2 when you're there.</p> <p>3 A. I'm there.</p> <p>4 Q. Section 3.2.1 is "The results from</p> <p>5 in vivo implantation studies indicate no</p> <p>6 cytotoxicity." Did I read that correctly?</p> <p>7 A. Yes.</p> <p>8 Q. Is this part of your report?</p> <p>9 A. Yes.</p> <p>10 Q. What does that mean?</p> <p>11 A. That means that after I reviewed the</p> <p>12 results of in vivo implantation studies of</p> <p>13 Prolene sutures in mesh that I came to the</p> <p>14 conclusions, based on those studies, that the</p> <p>15 TVT device does not cause cytotoxicity in</p> <p>16 in vivo animal studies.</p> <p>17 Q. And for the benefit of the jury, what</p> <p>18 is an in vivo animal study?</p> <p>19 A. It's a study conducted in a whole</p> <p>20 animal.</p> <p>21 Q. What is an in vitro study?</p> <p>22 A. That's a study conducted outside of a</p> <p>23 whole animal in a closed system, such as in a</p> <p>24 petri dish.</p> <p>25 Q. Can you -- strike that.</p>
<p>1 Q. And, Dr. Prueitt, I believe you</p> <p>2 testified that you didn't read some of these</p> <p>3 documents before you began your expert report,</p> <p>4 is that right?</p> <p>5 A. Correct.</p> <p>6 MR. ORENT: Objection to form.</p> <p>7 BY MR. HUTCHINSON:</p> <p>8 Q. Let's talk about after you started</p> <p>9 working on your expert report. Have you had an</p> <p>10 opportunity to review all of the reliance</p> <p>11 documents listed in Exhibit 1 to your</p> <p>12 deposition?</p> <p>13 A. Yes.</p> <p>14 Q. And when did you do that?</p> <p>15 A. After I started the report.</p> <p>16 Q. Have you reviewed these documents</p> <p>17 during the course and scope of your work on this</p> <p>18 particular project?</p> <p>19 MR. ORENT: Objection.</p> <p>20 A. Yes.</p> <p>21 BY MR. HUTCHINSON:</p> <p>22 Q. And is that something that you as a</p> <p>23 toxicologist would normally do in your practice?</p> <p>24 A. Yes.</p> <p>25 Q. Let's turn to Page 12 and 13 of your</p>	<p>1 You were asked whether or not on</p> <p>2 Page 12 and 13 of your report you summarized the</p> <p>3 findings of original authors.</p> <p>4 Do you remember that?</p> <p>5 A. Yes.</p> <p>6 Q. And is that what you did?</p> <p>7 A. Yes.</p> <p>8 MR. ORENT: Object.</p> <p>9 BY MR. HUTCHINSON:</p> <p>10 Q. Is that part of the weighted evidence</p> <p>11 approach that you as a toxicologist use to reach</p> <p>12 your opinions?</p> <p>13 A. Yes, we commonly do that. We have to</p> <p>14 rely on the study reports of others, the authors</p> <p>15 of the studies that we review. We are not a</p> <p>16 testing lab. This is what we do as</p> <p>17 toxicologists in consulting.</p> <p>18 Q. Is it common for a toxicologist such</p> <p>19 as yourself to rely on work of other scientists?</p> <p>20 A. Yes.</p> <p>21 Q. Is that what you were doing here?</p> <p>22 A. Yes.</p> <p>23 Q. Dr. Prueitt, you were asked whether or</p> <p>24 not you conducted a comprehensive review of all</p> <p>25 human case studies, retrospective studies,</p>

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<p>1 prospective studies, and randomized control 2 trials. Do you remember that line of 3 questioning?</p> <p>4 A. Yes, I do.</p> <p>5 Q. Did you need to do that?</p> <p>6 A. No.</p> <p>7 Q. Why not?</p> <p>8 A. Because I reviewed -- I felt that I 9 reviewed a sufficient number of studies to come 10 to my conclusions. And as a toxicologist it's 11 not something that we normally do to -- is 12 review case studies. It's better to rely on 13 epidemiology studies, because they actually will 14 show whether there's a statistically significant 15 effect of a chemical or treatment, whereas case 16 studies do not show that.</p> <p>17 Q. Tell the jury what type of studies 18 that you as a toxicologist relied on in reaching 19 your opinions.</p> <p>20 A. I relied on in vitro cytotoxicity 21 studies of Prolene mesh. I relied on in vivo -- 22 or the in vivo implantation studies of the 23 Prolene mesh from TVT. I relied on suture 24 studies of the Prolene sutures. And I relied on 25 long -- or clinical studies with long-term</p>	<p>1 A. This represents all of the documents 2 that I specifically cited in my report.</p> <p>3 Q. And did you review those documents 4 that you specifically cited in your report?</p> <p>5 A. Yes, I did.</p> <p>6 Q. Can you give us an idea of how many 7 documents there are?</p> <p>8 A. There are -- I cited 76 documents.</p> <p>9 Q. And did you bring those documents with 10 you here today?</p> <p>11 A. Yes.</p> <p>12 Q. Dr. Prueitt, you testified earlier 13 that you did not do a comprehensive literature 14 review. Do you remember that?</p> <p>15 A. Yes.</p> <p>16 Q. What did you mean by that?</p> <p>17 A. I meant by his definition of 18 comprehensive.</p> <p>19 Q. Who is "his"?</p> <p>20 A. Counsel.</p> <p>21 Q. For the Plaintiff?</p> <p>22 A. For the Plaintiff.</p> <p>23 Because I answered that question 24 shortly after he described what he meant by 25 comprehensive literature review, which included</p>
<p>1 follow-up of women who were implanted with TVT.</p> <p>2 Q. And what do those studies tell you as 3 a toxicologist?</p> <p>4 MR. ORENT: Objection.</p> <p>5 A. All together the results of all of 6 those studies indicate that the TVT mesh is not 7 cytotoxic in vivo and is not cytotoxic -- or 8 does not show evidence of cytotoxicity in 9 humans.</p> <p>10 BY MR. HUTCHINSON:</p> <p>11 Q. Let's talk about the literature and 12 the documents that you reviewed.</p> <p>13 Did you bring three notebooks with you 14 here today?</p> <p>15 A. Yes, I did.</p> <p>16 Q. And marked as Exhibit -- was it 4 to 17 your deposition?</p> <p>18 MR. ORENT: It's 3.</p> <p>19 BY MR. HUTCHINSON:</p> <p>20 Q. Marked as Exhibit 3 to your deposition 21 is a document. Have you seen that document 22 before?</p> <p>23 A. Yes.</p> <p>24 Q. Would you tell the ladies and 25 gentlemen of the jury what Exhibit 3 represents?</p>	<p>1 case studies and other types of studies that I 2 did not rely on and do not normally rely on as a 3 toxicologist.</p> <p>4 Q. And, Dr. Prueitt, I believe you 5 testified earlier that you're not an expert on 6 peer-reviewed literature about the safety and 7 efficacy of TVT. Do you remember that 8 testimony?</p> <p>9 A. Yes.</p> <p>10 Q. Do you need to be an expert on the 11 peer-reviewed literature of that?</p> <p>12 A. Not to form opinions on whether TVT is 13 cytotoxic.</p> <p>14 Q. And is that what you were asked to do 15 in this case?</p> <p>16 A. Yes.</p> <p>17 Q. Is a generally accepted methodology of 18 a toxicologist to review all of the safety and 19 efficacy literature of a device when studying 20 only cytotoxicity?</p> <p>21 MR. ORENT: Objection.</p> <p>22 A. No, and particularly not the efficacy.</p> <p>23 BY MR. HUTCHINSON:</p> <p>24 Q. Why not?</p> <p>25 A. Because that has no bearing on the</p>

1 potential cytotoxicity of the device. 2 Q. Dr. Prueitt, walk us through the 3 methodology that you used as a toxicologist to 4 reach your opinions in this case. 5 A. Okay. First I reviewed the documents 6 that were given to me, the in vitro cytotoxicity 7 studies, and the related documentation such as 8 by Dr. Barbolt that discusses these studies. 9 Also, the in vivo cytotoxicity studies that were 10 provided for the sutures and the mesh, because I 11 did not find any studies evaluating potential 12 cytotoxicity of TVT or even Prolene in the 13 peer-reviewed literature. 14 Q. And then what did you do? 15 A. And then I also looked at the -- 16 looked at clinical studies of TVT for -- with 17 follow-up of ten years or more to look for 18 potential adverse effects of TVT that might be 19 related to cytotoxicity. 20 Q. And what do those studies show, 21 Dr. Prueitt? 22 A. Those studies showed that there were 23 no adverse effects specifically related to 24 cytotoxicity in the women implanted with TVT. 25 Q. Did those studies show any evidence of	Page 130 1 a literature search and didn't find any other 2 in vitro or in vivo studies, or clinical studies 3 specifically related to cytotoxicity of TVT. 4 But -- so then I laid out the in vitro and in 5 vivo studies in the tables that are at the back 6 of my report, and looked at all the evidence 7 together, considered the relevance of in vitro 8 results to the situation in vivo and in humans 9 specifically, and then determined that, you 10 know, the weight of the evidence should lean 11 towards the in vivo studies and the clinical 12 studies because those are the most relevant to 13 humans. And those -- because those studies did 14 not show evidence of cytotoxicity specifically 15 from exposure to the TVT device, then I formed 16 my conclusions. 17 Q. And, Dr. Prueitt, is this the 18 methodology that you used -- strike that. 19 Is the methodology you used the 20 generally accepted methodology employed by a 21 toxicologist in reaching the opinions you 22 reached in this case? 23 MR. ORENT: Objection. 24 A. Yes, it is. I've used it before, and 25 my colleagues use it as well.
1 necrosis? 2 MR. ORENT: Objection. 3 A. Not that I saw, no. 4 BY MR. HUTCHINSON: 5 Q. And, Dr. Prueitt, as a toxicologist, 6 what does necrosis tell you about cytotoxicity? 7 A. It can be an indication of 8 cytotoxicity. However, the presence of necrosis 9 may not definitively indicate that the 10 cytotoxicity occurred from the exposure, it 11 could have been due to other complications, of 12 the surgery itself, or if there was a -- some 13 other type of adverse effect from the surgery, 14 such as a large amount of inflammation. It 15 could cause cells to die. There could be 16 mechanical cell death from encountering the edge 17 of the device, I would think. 18 Q. Dr. Prueitt, I'll apologize if I 19 interrupted you, but had you finished walking us 20 through your methodology that's used in reaching 21 your toxicology opinions? 22 A. No. 23 Q. Okay. What else did you do? 24 A. Well, I didn't mention this -- all the 25 types of studies that I reviewed and that I did	Page 131 Page 133 1 BY MR. HUTCHINSON: 2 Q. And, Dr. Prueitt, you mentioned 3 earlier that you created some tables that are in 4 Exhibit 1 to your deposition, is that correct? 5 A. Yes. 6 Q. And what do those tables tell us? 7 A. The tables lay out the general 8 methodology and the results of the in vitro and 9 in vivo studies that I reviewed. 10 Q. And, Dr. Prueitt, would that allow 11 another scientist to repeat and verify your 12 work? 13 A. Yes. Another scientist could look at 14 these tables, or they could make their own 15 tables of these studies and use them to come to 16 their conclusions. 17 Q. Dr. Prueitt, did you search PubMed for 18 necrosis and wound healing? 19 A. No, I did not. 20 Q. Did you need to do that? 21 A. No, I did not need to do that to come 22 to my opinions. 23 Q. Why not? 24 A. Because I felt that the clinical 25 studies that I reviewed which had follow-up of

<p style="text-align: right;">Page 134</p> <p>1 ten years or more in women with the TTV device 2 and did not show evidence of cytotoxicity were 3 enough to help me reach my opinions. And also 4 the presence of necrosis and wound healing 5 difficulties may not necessarily be caused 6 specifically by cytotoxicity.</p> <p>7 Q. Doctor, you testified earlier that 8 some of the studies in vitro were positive. Do 9 you remember that?</p> <p>10 A. Positive for cytotoxicity, yes.</p> <p>11 Q. Does the analysis stop there when 12 reaching an opinion about cytotoxicity of a 13 material?</p> <p>14 A. Absolutely not. You also have to --</p> <p>15 Q. Why not?</p> <p>16 A. Because results in vitro cannot be 17 directly extrapolated to what will happen 18 in vivo. You have to also evaluate in vivo 19 studies and human studies if they are available.</p> <p>20 Q. Why can those results not be 21 extrapolated from a scientific standpoint?</p> <p>22 A. Because those results were based on 23 putting either an elution from the mesh or the 24 mesh itself directly on a single cell type, and 25 with -- so it's an artificial situation, it's</p>	<p style="text-align: right;">Page 136</p> <p>1 Q. Dr. Prueitt, do you need to be the one 2 who physically does the in vitro or in vivo 3 testing to reach sound toxicology opinions in 4 this case?</p> <p>5 A. No.</p> <p>6 Q. Why not?</p> <p>7 A. Because I can review the studies and 8 see the results and interpret them based on the 9 study. I don't have to be, you know, the one 10 actually conducting the study to be able to 11 interpret it.</p> <p>12 MR. HUTCHINSON: I don't have any more 13 questions right now. Thank you for your time, 14 Dr. Prueitt.</p> <p>15 EXAMINATION</p> <p>16 CONTINUED BY MR. ORENT:</p> <p>17 Q. Doctor, I have some follow-up 18 questions for you.</p> <p>19 First of all, Doctor, in order to 20 evaluate cytotoxicity in humans related to the 21 TTV device, specifically what clinical 22 manifestation would you expect to find in the 23 literature to determine whether or not there was 24 evidence of cytotoxicity? What would the 25 clinical picture be?</p>
<p style="text-align: right;">Page 135</p> <p>1 not anywhere near the same as what's in the 2 body. And so in vitro tests like this are only 3 used as an initial screening test, they are 4 never used to show a definitive affect.</p> <p>5 Q. Dr. Prueitt, I want to go back to the 6 methodology that you used to render your 7 opinions. Have you used the methodology that 8 you used here before?</p> <p>9 A. Yes.</p> <p>10 Q. Have your colleagues used the same 11 methodology before today?</p> <p>12 A. Yes.</p> <p>13 Q. Why did you use this type of 14 methodology?</p> <p>15 A. Because it is the standard methodology 16 for evaluating potential adverse effects and 17 causation that's used by toxicologists both in, 18 you know, a regulatory -- by regulatory 19 toxicologists, as well as in the peer-reviewed 20 literature.</p> <p>21 Q. Dr. Prueitt, you were asked by the 22 Plaintiffs' lawyer whether or not you did the 23 in vitro or in vivo testing. Do you remember 24 that line of questioning?</p> <p>25 A. Yes.</p>	<p style="text-align: right;">Page 137</p> <p>1 A. Right. There could be necrosis. 2 There could be affects on wound healing.</p> <p>3 Q. How about -- so delayed wound healing?</p> <p>4 A. Yes, that could be evidence of 5 cytotoxicity.</p> <p>6 Q. What about ulceration?</p> <p>7 A. I don't know.</p> <p>8 Q. Okay. You previously said you don't 9 know what erosions are, correct?</p> <p>10 A. Right.</p> <p>11 Q. So you don't know if an erosion could 12 be a sign of cytotoxicity, correct?</p> <p>13 A. No, I don't know.</p> <p>14 Q. Okay. How about extrusion, do you 15 know what an extrusion is?</p> <p>16 A. Not definitively.</p> <p>17 Q. Okay. So if you're looking in the 18 clinical literature and you see a report of 19 extrusion, to you do you know whether or not 20 that is a sign of cytotoxicity?</p> <p>21 MR. HUTCHINSON: Objection.</p> <p>22 Counsel, she just told you she didn't 23 know what it was.</p> <p>24 BY MR. ORENT:</p> <p>25 Q. You can answer.</p>

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<p>1 A. No, I don't know specifically what 2 that is, but I know that necrosis and impaired 3 wound healing would be most likely what you 4 would visualize if there was cytotoxicity.</p> <p>5 MR. ORENT: Move to strike the last 6 portion.</p> <p>7 BY MR. ORENT:</p> <p>8 Q. Now, when an individual patient comes 9 in and complains of -- let me see, scarification 10 is another example of cytotoxicity, correct?</p> <p>11 A. Not that I'm aware of.</p> <p>12 Q. Fibrotic reaction?</p> <p>13 A. Not that I'm aware.</p> <p>14 Q. Okay. How about banding?</p> <p>15 A. Not that I'm aware.</p> <p>16 Q. Okay. Now, with regard again to the 17 mesh in cytotoxicity, do you know -- I 18 understand that you were looking for the words 19 necrosis somewhere, but what would the physical 20 presentation of a patient be who complains of 21 something that ultimately may lead to a 22 diagnosis of necrosis? What would that look 23 like?</p> <p>24 A. I don't know. I'm not a medical 25 doctor.</p>	<p>1 Q. Okay. So if erosion were listed as 2 something that was new between years 11 and 17, 3 would you have wanted to investigate what 4 exactly that meant?</p> <p>5 A. No. I was looking for something that 6 would indicate, clearly indicate cytotoxicity.</p> <p>7 Q. And so prior to beginning this 8 process, prior to looking at the human clinical 9 evidence that you've cited here, did you talk to 10 a urogynecologist?</p> <p>11 A. No, I don't think I needed to do that.</p> <p>12 Q. Did you talk to a pathologist to find 13 out what the clinical manifestation of these 14 sort of things might be?</p> <p>15 A. No, I didn't need to do that.</p> <p>16 Q. Okay. Now, in terms of necrosis, have 17 you ever seen in a medical implant study a 18 diagnosis of something like necrosis?</p> <p>19 A. No, I haven't.</p> <p>20 Q. Okay. Do you know whether or not 21 necrosis is something that's seen at the 22 microscopic level?</p> <p>23 A. Yes, it would be.</p> <p>24 Q. Okay. And so do you know whether or 25 not the clinical presentation, that a clinician</p>
<p>Page 139</p> <p>1 Q. Okay. So if you were looking at the 2 initial -- in any of these studies, for example 3 Nilsson, do you know, the complications that 4 arose between 11 and 13 years in Nilsson, did 5 they send the pathology out for microscopy and 6 further diagnosis to determine whether or not 7 necrosis was present?</p> <p>8 MR. HUTCHINSON: Object to form.</p> <p>9 A. They report that there were no serious 10 long-term TVT-induced adverse effects, so I 11 don't think that matters for my opinions.</p> <p>12 BY MR. ORENT:</p> <p>13 Q. Okay. Well, you looked at the data 14 tables associated with Nilsson 2013, correct?</p> <p>15 A. Yes.</p> <p>16 Q. And you're aware that there were new 17 complications that was reported in that period, 18 correct?</p> <p>19 A. I don't remember.</p> <p>20 Q. Okay. Well, would you have -- I mean 21 as part of your standard practice, this is one 22 of the few named studies that you looked at, 23 would you have looked at the data tables in 24 Nilsson?</p> <p>25 A. Yes.</p>	<p>Page 141</p> <p>1 would ever call it necrosis, or do you think 2 that that would later be made by a pathologist?</p> <p>3 MR. HUTCHINSON: Objection. Outside 4 the bounds of her report.</p> <p>5 BY MR. ORENT:</p> <p>6 Q. Do you know?</p> <p>7 A. I don't know.</p> <p>8 Q. But that would be important, wouldn't 9 it, in determining whether or not you're likely 10 to see the term necrosis in a clinical study, 11 wouldn't it?</p> <p>12 A. I don't know.</p> <p>13 Q. Who makes the diagnosis of necrosis?</p> <p>14 A. I don't know for sure.</p> <p>15 Q. Okay. Now, we talked about the 16 studies. You just mentioned you focus on 17 studies with -- that were present at least ten 18 years out, correct?</p> <p>19 A. Yes.</p> <p>20 Q. Okay. And do you know what percentage 21 of complications occur before ten years?</p> <p>22 A. No, I don't think that matters for my 23 opinions on cytotoxicity.</p> <p>24 Q. Okay. Now, in order for you to 25 determine that a substance is cytotoxic, does it</p>

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<p>1 need to show cytotoxic properties in every 2 single woman? 3 A. No, because humans are variable. 4 Q. Okay. So if the greatest percentage 5 of complications occur between year one and, 6 let's say, year seven or eight or nine, wouldn't 7 you want to look at the complications that occur 8 in that period of time to determine if there's 9 evidence of cytotoxicity? 10 A. Well, I mean I also looked at the 11 clinical literature review of 152 randomized 12 controlled trials, you know, that Ethicon did. 13 So, you know, to come to my opinions about 14 cytotoxicity I -- you know, if there were issues 15 with cytotoxicity of the device, those issues 16 should be long-term. I mean if this is 17 implanted and it's causing cytotoxicity, it 18 should cause cytotoxicity all the time, and you 19 should be able to -- that would -- that should 20 be a clear adverse effect. And so if this is a 21 cytotoxic material, you would expect to see it 22 in a large number of women. 23 Q. Are you aware that there's 100,000 24 mesh lawsuits in existence right now? 25 MR. HUTCHINSON: Form.</p>	<p>1 Q. And you'd agree with me that the dose 2 makes the poison, right? 3 A. Generally, yes, that's standard 4 toxicology tenet. 5 Q. And, in fact, you cite it in your 6 report, don't you? 7 A. Yes. 8 Q. So understanding that the dose makes 9 the poison, how do you account for that in the 10 studies that look at suture versus mesh? 11 A. Well, the mesh is larger than the 12 sutures, so if there were chemicals leaching out 13 of the material, there would be -- it would be 14 in a higher concentration in the mesh versus the 15 sutures. However, the studies -- the in vivo 16 studies of both the sutures and the mesh show no 17 cytotoxicity. 18 Q. Well, would you agree with me that all 19 of the in vivo mesh cytotoxicity studies are all 20 short-term, correct? 21 A. In vivo studies? 22 Q. Mm-hmm. 23 A. No. There was a study of up to 24 182 days, that's considered a chronic study. 25 Q. Okay.</p>
<p>1 A. No, I don't know the number. 2 BY MR. ORENT: 3 Q. Is that a large number? 4 A. I don't know. 5 Q. Let me ask you -- you didn't actually 6 answer my question, my last question, so let me 7 just go back and ask it again. 8 In order for you to determine that the 9 cyto -- excuse me. 10 If the greatest percentage of 11 complications occur between year one and, let's 12 say, year seven or eight or nine, wouldn't you 13 want to look at the complications that occur in 14 that period of time to determine if there's 15 evidence of cytotoxicity? It's a yes or no 16 question. 17 A. Yes, and I did by looking at the 18 clinical literature review. 19 MR. ORENT: Move to strike after the 20 word "yes." 21 BY MR. ORENT: 22 Q. The clinical literature review was not 23 a clinical literature review conducted by you, 24 correct? 25 A. Correct.</p>	<p>1 A. So that is not considered short-term. 2 Q. That's the only one? 3 A. And then the 91-day study below that, 4 that's actually considered chronic as well. 5 Q. Okay. 6 A. And then the others are considered 7 subacute, less than 30 days. 8 Q. So we're talking 182 days, that's 9 roughly half a year, correct? 10 A. Yes. 11 Q. Do you know what percentage of women 12 with mesh complications develop those 13 complications after the first six months? 14 A. No, but I don't think that matters. 15 And the lifespan of a rat is much shorter, and 16 so I don't know -- that's not directly 17 comparable. 18 Q. So how do you -- what is the 19 established peer-reviewed methodology for taking 20 a rat study and equating it to a human? 21 A. Well, generally you look to see if 22 there are known -- what the differences in 23 physiology are. 24 Q. We already discussed one article today 25 about the appropriate types of animals to be</p>

<p style="text-align: right;">Page 146</p> <p>1 used in the pelvic mesh context. Are you aware 2 of an entire body of literature that exists on 3 the very issue of animal selection for 4 extrapolation of information to the pelvis? 5 A. No. But I still don't, you know, 6 think that that would necessarily change my 7 opinions. 8 Q. You didn't research that, right? 9 A. No, it's not something I researched. 10 But I -- 11 Q. I'm sorry, I have one other question. 12 MR. HUTCHINSON: I'm sorry, 13 Dr. Prueitt, were you finished with your answer? 14 A. Yeah, I wasn't quite finished. 15 The fact that the literature I 16 reviewed for the human clinical studies doesn't 17 indicate cytotoxicity, you know, based on that, 18 based on what I found from that, you know, 19 showing a lack of cytotoxicity in women, so the 20 potential differences in physiology among the 21 different species, you know, it may not matter. 22 BY MR. ORENT: 23 Q. So when you were talking about your 24 opinion relative to women in the human clinical 25 data earlier, you said something. You said that</p>	<p style="text-align: right;">Page 148</p> <p>1 that to look at it, that's fine, but I want the 2 record to reflect that you need your report to 3 answer that question. 4 MR. HUTCHINSON: Let the record 5 reflect the witness has told you she wants to be 6 consistent. 7 A. The clinical studies show no evidence 8 of cytotoxicity, the clinical studies I 9 reviewed. 10 BY MR. ORENT: 11 Q. Okay. So is your opinion that you 12 have seen no evidence of cytotoxicity, or is it 13 that the TVT is not cytotoxic? 14 A. Well, the fact that I've seen no 15 evidence of cytotoxicity in women combined with 16 the other evidence that I evaluated leads me to 17 conclude that the weight of the evidence 18 indicates that the TVT is not cytotoxic in women 19 to a reasonable degree of scientific certainty. 20 MR. ORENT: Okay. 21 MR. HUTCHINSON: We don't have any 22 further questions. 23 Thank you, Dr. Prueitt, for your time. 24 MR. ORENT: Thank you. 25 THE VIDEOGRAPHER: Going off the</p>
<p style="text-align: right;">Page 147</p> <p>1 your opinion is that there's no evidence of 2 cytotoxicity in women. Do you recall saying 3 that? 4 A. Yes. 5 Q. Now, I want to just clarify. Is your 6 opinion the TVT is not cytotoxic in women, or is 7 it that you have seen no evidence of 8 cytotoxicity in women? 9 A. I want to be consistent with my 10 report. 11 Q. I'll let you go to your report in a 12 second. 13 Can you answer that question without 14 looking at your report, Doctor? 15 A. No, I just want to be consistent with 16 it. 17 Q. So you cannot answer that without 18 looking at your report? 19 MR. HUTCHINSON: Counsel, she made 20 reference that she wants to look at the report. 21 MR. ORENT: That's fine. 22 BY MR. ORENT: 23 Q. I just want the record to reflect that 24 I've asked that question to what your opinion is 25 before you review your report. And if you need</p>	<p style="text-align: right;">Page 149</p> <p>1 record. This concludes the deposition of 2 Dr. Prueitt of October 22nd, 2015. The time is 3 1:15. 4 (Whereupon, the deposition was 5 concluded.) 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25</p>

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1 COMMONWEALTH OF MASSACHUSETTS ) 2 SUFFOLK, SS. ) 3 I, MAUREEN O'CONNOR POLLARD, RMR, CLR, 4 and Notary Public in and for the Commonwealth of 5 Massachusetts, do certify that on the 22nd day 6 of October, 2015, at 9:48 o'clock, the person 7 above-named was duly sworn to testify to the 8 truth of their knowledge, and examined, and such 9 examination reduced to typewriting under my 10 direction, and is a true record of the testimony 11 given by the witness. I further certify that I 12 am neither attorney, related or employed by any 13 of the parties to this action, and that I am not 14 a relative or employee of any attorney employed 15 by the parties hereto, or financially interested 16 in the action. 17 In witness whereof, I have hereunto 18 set my hand this 24th day of October, 2015. 19 20 _____ 21 MAUREEN O'CONNOR POLLARD, NOTARY PUBLIC 22 Realtime Systems Administrator 23 CSR #149108 24 25	1 ----- 2 ----- 3 E R R A T A 4 ----- 5 PAGE LINE CHANGE 6 ----- 7 REASON: _____ 8 ----- 9 REASON: _____ 10 ----- 11 REASON: _____ 12 ----- 13 REASON: _____ 14 ----- 15 REASON: _____ 16 ----- 17 REASON: _____ 18 ----- 19 REASON: _____ 20 ----- 21 REASON: _____ 22 ----- 23 REASON: _____ 24 ----- 25
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1 INSTRUCTIONS TO WITNESS 2 3 Please read your deposition over 4 carefully and make any necessary corrections. 5 You should state the reason in the appropriate 6 space on the errata sheet for any corrections 7 that are made. 8 After doing so, please sign the 9 errata sheet and date it. It will be attached 10 to your deposition. 11 It is imperative that you return 12 the original errata sheet to the deposing 13 attorney within thirty (30) days of receipt of 14 the deposition transcript by you. If you fail 15 to do so, the deposition transcript may be 16 deemed to be accurate and may be used in court. 17 18 19 20 21 22 23 24 25	1 ACKNOWLEDGMENT OF DEPONENT 2 3 I, _____, do 4 Hereby certify that I have read the foregoing 5 pages, and that the same is a correct 6 transcription of the answers given by me to the 7 questions therein propounded, except for the 8 corrections or changes in form or substance, if 9 any, noted in the attached Errata Sheet. 10 11 12 13 14 15 Subscribed and sworn 16 To before me this 17 _____ day of _____, 20 _____. 18 My commission expires: _____ 19 Notary Public 20 21 22 23 24 25

